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Mansfield University of Pennsylvania
Mansfield, PA 16933

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Web Site: mansfield.edu

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ADMINISTRATION AND INFORMATION

President
Dr. John R. Halstead
North Hall 500; 570-662-4046

Provost and Vice President for Academic Affairs
Dr. Michael R. Lane
North Hall 508; 570-662-4804

Vice President for Student Affairs
Dr. Shari J. Clarke
North Hall 516; 570-662-4930

Assistant Provost
Dr. Russell Cooper
North Hall 504; 570-662-4171

Admissions
Mr. Brian Barden, Director of Enrollment Management
Alumni Hall G4; 570-662-4243

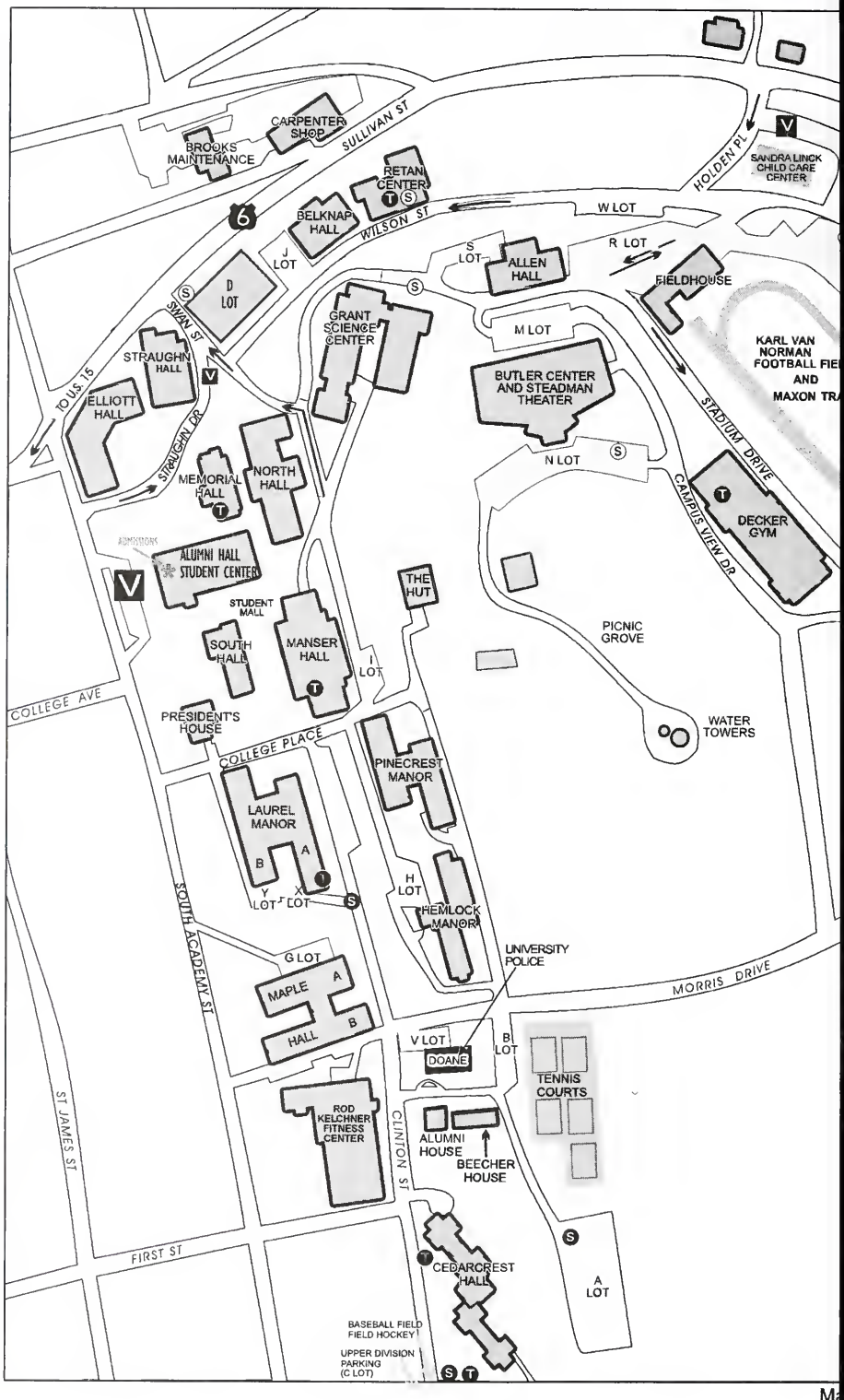
Center for Lifelong Learning
Ms. Susan Sweet, Director
Memorial Hall 205; 570-662-4244

Information Technology
Ms. Connie Beckman, Director
Memorial Hall 002; 570-662-4830

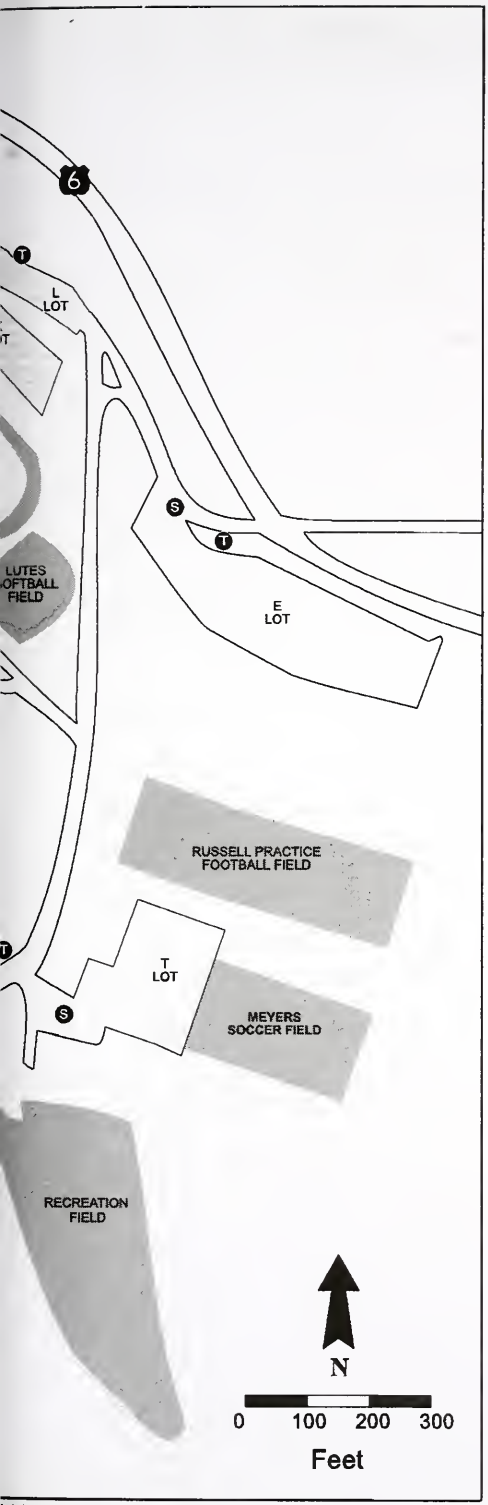
Public Relations
Mr. Dennis R. Miller, Director
520 North Hall; 570-662-4846

Student Accounts
Carmen Wood, Director
South Hall 101; 570-662-4888

Controller's Office
Mr. Curt Tofts
Alumni Hall 129; 570-662-4868


CARPENTER SHOP
BROOKS MAINTENANCE
SULLIVAN ST
HOLDEN PL
SANDRA LINCK CHILD CARE CENTER
RETAIL CENTER
BELKNAP HALL
WILSON ST
W LOT
J LOT
S LOT
ALLEN HALL
R LOT
FIELDHOUSE
D LOT
SWAN ST
GRANT SCIENCE CENTER
M LOT
KARL VAN NORMAN FOOTBALL FIE
AND
MAXON TRA
STRAUGHN HALL
TO U.S. 15
BUTLER CENTER AND STEADMAN THEATER
STADIUM DRIVE
ELLIOTT HALL
STRAUGHN DR
N LOT
CAMPUS VIEW DR
DECKER GYM
MEMORIAL HALL
NORTH HALL
ADMISSIONS
ALUMNI HALL STUDENT CENTER
THE HUT
STUDENT MALL
SOUTH HALL
MANSER HALL
I LOT
PICNIC GROVE
COLLEGE AVE
PRESIDENT'S HOUSE
COLLEGE PLACE
WATER TOWERS
PINECREST MANOR
LAUREL MANOR
H LOT
HEMLOCK MANOR
SOUTH ACADEMY ST
G LOT
UNIVERSITY POLICE
MAPLE HALL
MORRIS DRIVE
V LOT
B LOT
DOANE
TENNIS COURTS
ROD KELCHNER FITNESS CENTER
CLINTON ST
ALUMNI HOUSE
BEECHER HOUSE
ST JAMES ST
FIRST ST
CEDARCREST HALL
A LOT
BASEBALL FIELD
FIELD HOCKEY
UPPER DIVISION PARKING (C LOT)

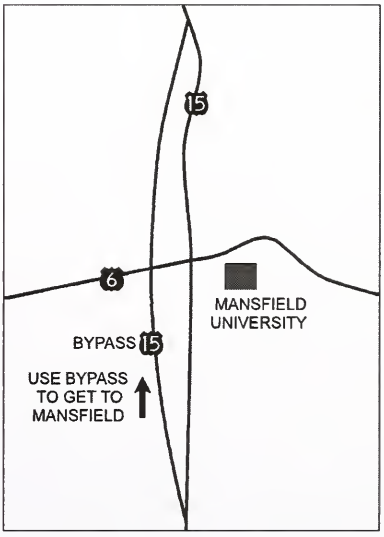
Ma



Ⓢ Shuttle Stop 8 p.m. - 10.30 p.m.
Ⓢ Shuttle Stop 8 p.m. - Midnight
Ⓣ Public Telephone (911 service)
Ⓥ Visitors Parking

✱ Admissions - Alumni Hall, Ground Floor
1.800.577.6826
Academic Advising Center - South Hall 110
570.662.4824
Athletics - Decker Gymnasium 111
570.662.4860
University Police - Doane Center
570.662.4900
Career Development - South Hall 305
570.662.4820
Center for Life Long Learning - Doane Center 209
570.662.4244
Certification Office - Retan Center 111C
570.662-4565
Financial Planning - Alumni Hall 104
570.862.4878
Residence Life - Pinecrest 120
570-662-4933
Revenue - South Hall 101
570.662.4888

Commuter Parking



ld University Department of Geography and Geology

UNIVERSITY CALENDAR

2004-2005

Fall Semester, 2004

University Meeting Days	Th—F	August 26-27
Residence Halls Open:		
New Students	Sa	August 28
Returning Students	Su	August 29
Academic Orientation Day	M	August 30
Classes Begin at 4:00 pm	M	August 30
Labor Day – No Classes	M	September 6
Monday Class Schedule	Tu	September 7
Last Day to DROP Classes	Tu	September 7
Last Day to:		
ADD Classes	W	September 8
Submit "Credit-By-Exam" form		
Submit "Intent to Graduate" form for May 2005		
Submit "Pass/Fail Option" Card		
Submit "Repeat of Course" Card		
Last Day to Submit "Incomplete" Grades	Tu	September 14
Last Day to Complete "Credit-By-Exam"	Tu	September 21
Mid-Semester Grades Due	F	October 8
Fall Holiday – No Classes	M & T	October 11 and 12
Last Day To Withdraw From A Course	F	October 22
Registration for Spring Semester Begins	M	October 25
Thanksgiving Holiday - No Classes	W-Fri	November 24-26
Fall Semester Classes End	F	December 10
Final Examination Period *	M-Fri	December 13-17
Residence Halls Close	F	December 17
Fall Commencement	Sa	December 18
Fall Semester Grades Due (12:00 Noon)	M	December 20
Academic Review Board	W-Fri	January 5-7

*Friday is reserved for make up if it is necessary for the University to cancel final exams on one of the other days.

Spring Semester, 2005

University Meeting Days	Th—F	Jan 6-7
Residence Halls Open	Su	Jan 9
Classes Begin at 8:00 am	M	Jan 10
Martin Luther King Holiday – No Classes	M	Jan 17
Last Day to DROP Classes	Tu	Jan 18
Last Day to:		
ADD Classes	W	Jan 19
Submit "Credit-By-Exam" form		
Submit "Intent to Graduate" form for December 2005		
Submit "Pass/Fail Option" Card		
Submit "Repeat of Course" Card		
Last Day to Submit "Incomplete" grades	M	Feb 1
Last Day to Complete "Credit-by-Exam"	M	Feb 7
Mid-Semester Grades Due	F	Feb 25
Spring Holiday - No Classes		Mar 3-13
Last Day To Withdraw From A Course	F	Mar 18
Registration For Fall Semester Begins	M	Mar 28
Spring Semester Classes End	F	Apr 29
Final Examination Period *	M-Fri	May 2-May 6
Residence Halls Close	F	May 6
Spring Commencement	Sa	May 7
Spring Semester Grades Due (12:00 Noon)	M	May 9
Academic Review Board	W-F	May 18-20

* Friday is reserved for make up if it is necessary for the University to cancel final exams on one of the other days.

I. INSTITUTIONAL HISTORY AND INFORMATION

HISTORY

Mansfield University was founded in 1857. Four months after the school opened, it burned to the ground. Area residents were so committed to having a college, they immediately rebuilt it. Over the decades, we've gone through five name changes: Mansfield Classical Seminary, State Normal School, State Teacher's College, and State College. In 1983, we became Mansfield University, a member of the Pennsylvania State System of Higher Education.

On September 28, 1892, Mansfield made history when our football team played the first night football game in history. The game is re-enacted each year during the Fabulous 1890's Weekend.

In 1996, renovations to the historic North Hall were completed. The elegant 19th century Victorian structure now houses one of the world's most state-of-the-art, hi-tech libraries. In 1997, the Rod C. Kelchner Fitness Center opened, within a short walk from each residence hall. During spring 2000, a new student union in Alumni Hall was opened and just before the fall 2000 semester, we opened our new child care center.

MU FACTS

The campus consists of 174 acres and 39 buildings; multiple recreation areas, tennis courts, and playing fields; an indoor swimming pool, three auditoriums, a state-of-the-art library, a new fitness center, a new student union, and a new child care center.

STUDENT ENROLLMENT

3520 enrolled in the fall of 2003: 2,982 full-time and 538 part-time; 2228 female, 1,292 male. Students come from 25 states and 25 foreign countries.

STUDENT-FACULTY RATIO

The ratio is 18:1. Approximately 70% of our classes have fewer than 30 students; 41% have fewer than 20 students; and only 8% have 50 or more students.

STUDENT FINANCIAL AID

More than 80% of undergraduate students receive financial assistance in some form. This includes federal, state, and institutional grants; a variety of loans and employment.

FACULTY

We have 166 full-time faculty; 30% of these are full professors and more than 64% have Ph.D.s or other terminal degrees.

PROGRAMS OF STUDY

We offer 6 two-year associate degree programs, 70 four-year baccalaureate programs in the liberal arts and professional studies, and seven master's degree programs. We also offer 46 minors.

SPECIAL OPTIONS
We offer multiple majors, a self-developed major, an honors program, internships, independent studies, individualized instructions, and study abroad opportunities.

COLLEGE FINANCIAL DATA:
Our physical plant has a value of $70,000,000 and our 2002-2003 operating budget was approximately $54,000,000.

ACCREDITATION
The principal accrediting agencies for Mansfield University undergraduate programs are:
The Middle States Association of Colleges and Secondary Schools
The National Council for Accreditation of Teacher Education
The National Association of Schools of Music
The National Association for Music Therapy
The Council on Social Work Education
The Committee for Allied Health Education
The National League for Nursing Accrediting Commission
JRC Joint Review Commission on Education in Radiologic Technology – Radiology – 20 North Wacker Drive, Suite 900, Chicago IL 60606-2901
The National Accreditation Agency for Clinical Laboratory Sciences
Commission on Accreditation/Approval for Dietetics Association

LOCATION
Mansfield is a borough of 4,000 persons located in the Northern Tier of Pennsylvania at the intersection of U.S. 15 and U.S. 6. We're 50 miles north of Williamsport, PA and 30 miles south of Corning, NY. Driving time from: Harrisburg, PA, 3 hours; Scranton, PA, 2 hours; Buffalo, NY, 3 hours; Binghamton, NY, 2 hours; Philadelphia, PA, 4 hours; Pittsburgh, PA, 5 hours; New York City, 5 hours. Daily bus service, north and south, connects all points in the northeast U.S.

REGION
Year-round outdoor activities are available in the immediate region. Opportunities include hunting, fishing, skiing, camping, hiking, and water sports. Cultural attractions include the Clemens Center of Performing Arts in Elmira, NY; Corning Museum of Glass and Rockwell Museum of Western Art in Corning, NY.

CULTURAL ACTIVITIES
We offer a variety of cultural activities during the academic year. The Faculty Lecture and Film Series, Women's Art and Culture Week, and Global Issues Week are traditions at Mansfield. The Fine Arts Series offers a variety of professional music and dramatic performances and monthly art exhibitions, and there are regular recitals by music faculty and students throughout the year. Fiction and poetry readings as well as other cultural activities round out the University's cultural opportunities.

LIBRARY FACILITIES
Mansfield University has one of the newest and most electronically advanced libraries in the United States. The recently renovated six-story North Hall provides an elegant 19th century setting where you can access information from around the world through our computers and links to the Internet.

RESIDENCE HALLS

Five residence halls house approximately 1,800 students. Housing options include wellness floors, travel floors, 24-hour quiet areas, all smoke-free, and one building which houses females only.

CALENDAR

Our regular academic calendar consists of a fall semester which ends before Christmas and a spring semester ending in early May. We also offer three summer sessions from May through August.

MISSION STATEMENT

Mansfield University is dedicated to providing an environment that promotes academic and personal growth as well as intellectual, ethical, and aesthetic values. The University serves the region, state, national and international communities by developing human and material resources. The University is committed to stimulating continuous pursuit of knowledge and understanding by students, staff, and faculty. To accomplish this mission, Mansfield University pledges:

- To provide a liberal education for all its students.
- To prepare students for full and purposeful lives through undergraduate and graduate instruction in liberal arts and professional programs.
- To plan, develop, implement, and measure its efforts in providing optimum learning opportunities for students of a variety of ages, backgrounds, and needs.
- To promote affirmative action and equal opportunity.
- To maintain a faculty dedicated to teaching and scholarship.
- To cooperate with other educational institutions for the achievement of mutual goals.
- To provide educational and cultural programs to the general community.
- To offer expertise in public service activities.

STATEMENT OF DIVERSITY

Graduates of Mansfield University participate in a world that has been enriched by knowledge, insights, and traditions of diverse peoples who live and work together. An academic community that values diversity by words and actions provides the best environment in which students can learn the social skills necessary to participate and flourish in our multi-cultural environment.

The Mansfield University Council of Trustees reaffirms the purpose of Mansfield University, as stated by President Simon B. Elliot in 1912, to strive to make education universal; that the rich and the poor, the child of those who have power and place, and of those who tread the lowly paths of life, shall receive alike the blessings of education...and invite equally and alike, without distinction of sex, or color, or race, or creed, or party, the children of all who may desire to participate in the opportunities here offered. That is the highest purpose for which Mansfield may be praised.

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II. ADMISSIONS

REQUIREMENTS FOR ADMISSION

To be considered for admission to Mansfield University you must graduate from an approved secondary school or have obtained equivalent preparation as determined by the Credentials Evaluation Division of the Pennsylvania Department of Education. Admission to the University is granted to those applicants who successfully complete college preparatory secondary school work (grades 9-12). Credentials should also include a class rank in the upper three fifths of the graduating class and a satisfactory score on the Scholastic Aptitude Test (SAT) or the American College Testing (ACT). The SAT or ACT scores are not required if the applicant is 21 years or older or has been out of high school for three or more years.

Recommended Preparatory Course Work

English	4 Credits
History or Social Studies	4 Credits
Laboratory Science (Bio, Chem)	2-3 Credits
Algebra, Plane Geometry, Algebra 2	3-4 Credits
Foreign Language	2-4 Credits
Electives (academic)	6 Credits
Total	21-25 Credits

APPLICATION PROCEDURES

Contact the Admissions Office to receive an application for admission to the undergraduate programs. The Admissions Office begins accepting applications on July 1 following the student's junior year of high school. A complete application should include a $25 non-refundable application fee as well as the following credentials:

1. An official high school transcript (an official copy must bear school seal and signature of an official).
2. An official copy of the Scholastic Aptitude Test (SAT) or American College Test (ACT) results.

DEADLINES FOR APPLICATION

Mansfield University has a rolling admissions policy. We encourage you to apply early. All applications are considered based upon academic credentials and space availability for the entry date requested. Once we receive all credentials and supporting documents, the Admissions Committee will notify you in a timely fashion. Scholarships and space in specific academic programs are also awarded on a rolling basis; therefore, it can be advantageous to apply early in the calendar year.

WHEN OFFERED ADMISSION

Applicants offered admission while still enrolled in high school/college are expected to maintain or improve upon the academic scholarship presented when the credentials are initially reviewed. Failure to maintain scholarship, as reflected on final official transcripts (including class rank, grade point average, and course/credits scheduled) may result in revocation of the offer of admission.

When you have been granted admission and fail to enroll, the offer of acceptance is valid for one year from the initial entry date, provided the academic credentials have not decreased in the meantime. After one year you must reapply for admission as a new applicant and meet the standards for acceptance current at the time of reapplication.

The university reserves the right to establish or change admission standards as it deems necessary.

ADMISSION CATEGORIES

If you meet the academic qualifications as outlined you will be offered admission to the university as a regular admit for the fall semester. Other admissions categories are described below.

EARLY DECISION

Consideration for an early admission decision for fall entrance is given to candidates who meet prescribed academic requirements as demonstrated by their high school grades and junior year SAT scores. Those offered admission through this program also submit scores from a senior year examination of the SAT. Applicants who qualify for early decision are notified when we receive the completed application, application fee, official high school transcript, and junior year SAT/ACT scores.

An advance deposit must be paid within 30 days of the offer of admission to reserve a space in the incoming class.

DEVELOPMENTAL PROGRAMS

If you show a potential for success in college but do not meet the regular requirements for fall acceptance, you may be considered for one of our developmental programs. You may not have completed the recommended high school course sequence or may require preparatory course work to polish your skills. Your high school credentials may rank below the university's minimum requirements but reveal potential for future success.

Students selected for participation in a developmental program must complete preparatory course work which is based upon diagnostic-placement results and receive tutoring and advising assistance. Upon successful completion of the program, students continue in a matriculated status. There are limited spaces for enrollment in these developmental programs.

EARLY ADMISSION

If you are a high school senior who meets our admission requirements and are interested in attending full-time in lieu of attending high school in your senior year, upon final approval and acceptance, you would be considered a freshmen at Mansfield University. All policies and procedures applicable to university freshmen apply. Should you select this option, you are responsible for obtaining permission from your high school administration/school board to attend Mansfield University in lieu of your senior year of studies within high school. We strongly recommend that you secure a written statement of approval as well as a statement assuring you that, upon successful completion of your freshman year of studies and presentation of an official transcript of scholastic achievement, a high school diploma will be awarded by the high school of origin. Any specific course requirements which must be fulfilled during the freshman year of college studies to satisfy requirements for a high school diploma must be identified by the guidance counselor on the Admissions form.

You must file an application form, submit official high school transcripts, standardized test scores, and letters of recommendation, including a recommendation from the high school guidance counselor. The need to take any developmental course work in the basic skill areas of reading, writing, or mathematics will result in disapproval of the application.

In order to be eligible for federal financial aid consideration, a student in the early admission category must meet the following criteria:

- A student may NOT take any classes at Mansfield University that will be used to meet any high school graduation requirement. All high school coursework must have been completed prior to receiving any financial aid at the University.
- A letter from the high school guidance office confirming all coursework requirements have been met prior to University enrollment is required.
- Students planning to enroll at Mansfield University for their entire senior year of high school MUST provide a letter from the school district stating that the student will not be counted on the roster for reimbursement from their particular state.

NON-DEGREE STUDENTS

High school graduates or those who hold a General Education Development (GED) certificate may choose this alternative route to take course work through the university without formally applying to the university and without taking the SAT or ACT tests.

Approval to take course work as a non-degree student does not imply or guarantee admission to the University or acceptance in a degree program, but it does offer flexible educational experiences for nontraditional students. This program enables individuals to enrich themselves, improve a particular skill for current or future employment, try college courses to see if they want to pursue a degree, or transfer credit to another institution.

Students may earn up to 30 credit hours, exclusive of developmental (0090) course work, and then apply these credits toward a degree program at Mansfield University. A maximum of 11 credit hours may be scheduled during each academic semester of attendance.

Students may elect to Audit Courses (pg. 56) at Mansfield University.

The Enrollment Services Office strongly encourages students to meet with the Coordinator of Non-Degree Students to make specific plans for course work. The coordinator explains transfer credits if applicable and reviews curriculum requirements.

Non-degree students are required to meet the university's minimum academic requirements. Students who fail to meet those requirements at the end of a semester may be administratively disqualified and denied future enrollment at the discretion of the Provost or his designee.

Any student who is not a U.S. citizen must provide a current, valid visa and a TOEFL score (500 minimum) or demonstrate English proficiency. For additional information contact the Enrollment Services Office at (570)662-4873 or (800) 577-6826 or visit our website at http://admissions.mnsfld.edu/ps/.

COLLEGE BOUND PROGRAM

Our College Bound Program is for serious high school learners who know they will go to college, want to explore their potential for college work, or who want to study subjects not normally available in high school.

The College Bound Program provides opportunities on-campus, off-campus, and via distance education technologies for outstanding high school students to develop their academic potential by pursuing college course work. Students who participate in this program take liberal arts and/or science courses accepted at most colleges/universities in the U.S.

All academic courses meet departmental standards and earn Mansfield University credits. Students seeking approval to take course work through the College Bound Program must demonstrate potential for success at the college level.

Applicants must be recommended by their high school guidance counselor and demonstrate the ability to think critically and analytically. In recommending students for the College Bound Program, high school guidance counselors should use, but are not limited to the following guidelines: students who have pursued an academic curriculum in grades 9-12 and have demonstrated mastery of writing, mathematics, reading and study skills. College Bound applicants must also demonstrate maturity and social skills appropriate for success in college course work. Students who meet the requirements for the College Bound Program are approved to pursue course work under the category of a lifelong learner and are not admitted as matriculated students to the University.

An approved College Bound candidate is not typically eligible for financial aid. However, students approved to take course work as a College Bound Student have their application fee waived. College Bound students taking course work through distance education will have access to the latest videoconferencing technology. Students see and hear the professor live on screen in their own high schools or local videoconferencing facility. This allows students to ask questions, take part in discussions, and participate with the professor and students in a Mansfield University classroom.

Students interested in the College Bound Program must submit a Non-Degree Student Application. You may access the application online at http://admissions.mnsfld.edu/ps/; by request to the Enrollment Services Office, 136 Alumni Hall, Mansfield University, Mansfield, PA 16933; or by phone at (570) 662-4873 or (800) 577-6826.

SENIOR CITIZENS PROGRAM

Mansfield University offers a tuition waiver to senior citizens who are receiving Social Security retirement and are at least 62 years of age (or minimum age as defined by the Federal Social Security Administration). Senior citizens may register for courses offered in the fall, spring, and summer sessions. They may either audit the class or take the class for credit. Interested students complete a Senior Citizen Tuition Waiver form at the Revenue Office requiring proof of benefits (copy of monthly check or statement from the Social Security Office). Since only tuition is waived, students are charged the miscellaneous fees associated with the number of credits requested. For more information, contact the Enrollment Services Office at (570) 662-4873 or (800) 577-6826.

VISITING STUDENT PROGRAM

The Visiting Student Program allows students enrolled full-time at a Pennsylvania State System of Higher Education university to enroll at a sister institution for a limited period. If you wish to enroll at Mansfield University as a visiting student you must receive permission from your home university. You must have satisfactorily completed at least 27 credits at the home university and be in good academic standing. You may take a maximum of 18 credits in a single semester and up to 16 credits of summer work as a visiting student.

Applications for visiting student status are submitted to Mansfield University's Office of the Provost for approval. The completed visiting student application (available from the home institution) provides verification of good academic standing. No further credentials are required for admission into the visiting student program at Mansfield University.

You should request a Mansfield University transcript be forwarded to the home campus after courses have been completed. Mansfield University assigns credits and grades in accordance with its own polices and procedures.

SPECIAL ART/MUSIC PROGRAM REQUIREMENTS

Applicants for an art degree must satisfy general college admission requirements and present a portfolio of work to the Art Department for evaluation prior to formal acceptance into an art program. For further information contact the Art Department (570) 662-4500.

Applicants for a music degree, having satisfied the requirements for general college admission, must audition for acceptance into the music department. Acceptance is based upon a demonstration of both musical aptitude and musical accomplishment. For further information contact the Music Department (570) 662-4710.

TRANSFER ADMISSION

Students are normally eligible for transfer admission if they have attained an overall 2.0 cumulative quality point average (QPA) at an accredited post-secondary institution. Exceptions are as follows: Nursing, 2.5 QPA; Education, 3.0 QPA. Credit is awarded for college level courses completed in accredited colleges/universities. "Accredited" is defined to include accreditation by any of the seven regional accrediting bodies only, e.g. Middle States for this region. Credits presented from non-accredited colleges or universities are not eligible for transfer consideration.

Contact the Office of Admissions for a transfer application or visit our website (mansfield.edu) to apply online. Transfer students submit the application along with official transcript(s) from all post-secondary institutions previously attended. All information is sent to the Transfer Coordinator in the Admissions Office. Mansfield University has a rolling admissions policy. All interested applicants are encouraged to apply early. Applications will be considered based upon academic credentials and space availability for the entry date requested.

Applicants who have earned fewer than 30 credits in college level work are required to submit an official high school transcript and an official record of the SAT or ACT. The SAT or ACT scores are not required if the applicant is 21 years or older or has been out of high school for two or more years.

Students approved for transfer to Mansfield University and enrolled at another institution are granted admission on a provisional basis until all records from the previous institution have been reviewed and finalized.

TRANSFER EVALUATION

Following acceptance into the university, an evaluation of courses taken at previous institutions is made by the Transfer Coordinator in consultation with the chairperson of the student's major department.

Credits are evaluated on a course-by-course basis. Exceptions to this policy are specified in the State System of Higher Education Academic Passport for students transferring from Pennsylvania community colleges and transfer agreements between Mansfield University and many two year institutions. Currently, agreements exist with Bucks County Community College, Cambria County Community College, Corning Community College, Harrisburg Area Community College, Keystone College, Lackawanna College, Lehigh-Carbon Community College, Luzerne County Community College, Pennsylvania College of Technology, and Reading Area Community College.

Actual grades and the quality point average (QPA) do not transfer from any previous institution. It is the credits earned that transfer.

The number of credit hours that transfer from another institution cannot be more than the number awarded for completion of course work at that college/university. For example, some institutions do not give credit for physical education courses. A student

accepted from such an institution is considered to have met the physical education requirement at Mansfield for as many PE courses as taken previously, but no credit would be awarded. Similarly, Introductory Biology might carry three credits at another institution and three credits would be given in transfer for such course even though the equivalent biology at Mansfield is four credits. Furthermore, if a U.S. History course is four credits at another institution, four credits would be given in transfer even though U.S. History at Mansfield University is a three-credit course.

Because of the time sequence necessary for the development of skills required by the music curriculum, students are advised to transfer as early as possible. Otherwise, it becomes increasingly difficult to complete the curriculum within the normal four-year span of time. Credits in the music area must be validated by examination before they are accepted for transfer. This is to insure that the student is capable of successfully completing the remaining required courses.

MAXIMUM HOURS ACCEPTED IN TRANSFER

There is no limit on credits accepted from accredited four year colleges and universities. Mansfield University will not accept in transfer more than 67 semester hours of coursework from two-year junior or community colleges. Students must have earned a 2.0 GPA from prior institutions to be eligible for transfer. Transfer credit will be applied as appropriate to satisfy general education courses, courses required by the major, and elective courses. To earn a Mansfield University degree, students must complete 50% of their major courses at Mansfield University and must complete a minimum of 25% of the total degree credit requirements at Mansfield University.

READMISSION OF FORMER STUDENTS

Any degree-seeking student who has not been in attendance during the previous semester must apply for readmission to the university.

An applicant for readmission should request an application from the Admissions Office. The $25 application fee is waived for students readmitting to the university.

Students readmitted following a break of more than one semester fall under all university policies in effect at the time of readmission. Before students are readmitted, they must clear all outstanding university-related debts.

ACADEMIC AMNESTY

The Academic Amnesty Policy is a means to allow certain students who have been separated from the University to return and not be unduly encumbered by their prior academic record. A student may be granted Academic Amnesty only once. Once granted, its conditions cannot be altered. Conditions for Academic Amnesty are as follows:

1. A student must be separated from the University for at least five years before being eligible for Academic Amnesty.
2. All grades for courses taken prior to the point at which Academic Amnesty is granted will remain on the academic transcript and academic history, but the cumulative QPA will be represented as "0.00".
3. Only those courses that reflect a grade of C or better and were earned at Mansfield University prior to readmission will count as semester hours earned toward graduation. Courses with grades of C- or less will not count toward graduation.
4. A student will be placed on probation for the initial returning semester.
5. A student must achieve a minimum quality point average of 2.00 by the end of the second semester. Failure to achieve the 2.00 minimum QPA will result in permanent dismissal from Mansfield University.

Procedure:

1. The student is evaluated for admission through the normal processing of the readmit application in the Admissions Office.
2. The student is referred to an advisor for review of academic standing.
3. The student makes application for Academic Amnesty to the Provost.

PRINCIPLES OF ENROLLMENT MANAGEMENT

Mansfield University endorses enrollment management principles and reserves the right to limit the total number of freshmen, transfer, and readmission students within specific degree programs as well as the total entering class each entry date. Official entry dates occur in the summer, fall, and spring each academic year. You may be offered admission to a waiting list based upon these principles. Assignment of confirmed spaces is made after a comprehensive review of academic credentials.

SUMMER SCHOOL

Our Summer School program is designed to meet the needs of a variety of students. A wide range of educational opportunities include credit courses for undergraduates, non-degree and graduate students as well as workshops, travel credit courses, and seminars in the liberal arts, teacher education, and other fields of study. Summer courses include traditional in-classroom experiences as well as online courses.

Summer sessions are open to all students who have earned a high school diploma or GED, but enrollment does not imply or guarantee admission or readmission to Mansfield University.

Continuing university students, including new students, who wish to accelerate their program of study will find both general education and other courses in a variety of fields of study. Students from other colleges and universities may take courses through Mansfield University. However, they are advised to first ensure that their home institution will transfer credits earned.

Teachers and graduate students will find courses in the summer program to serve a variety of needs. They may enroll to complete requirements for permanent certification, take refresher courses in their field of specialization, to earn certification in a new field, or to take academic coursework to meet ACT 48 requirements.

The Summer Session bulletin is usually available after March 1. You can visit our website (mansfield.edu) to view the Summer Session bulletin online which includes on & off campus and online offerings.

CENTER FOR LIFELONG LEARNING

The Center for Lifelong Learning provides educational opportunities on-campus, online and at a variety of locations off-campus. The Center for Lifelong Learning is responsible for off-campus undergraduate and graduate courses and programs including all distance education and online course offerings. The Center for Lifelong learning also offers the Adult Basic Education and GED programs, Workforce Development, Community Programs & Camps, and non-credit personal and professional development programs.

DISTANCE EDUCATION

Mansfield University offers opportunities for learning in a variety of settings. Recognizing the unique needs of learners, we have both online undergraduate and graduate courses and programs as well as videoconference courses. For further information contact Karen Norton at 800-661-3640 or email knorton@mansfield.edu.

VIDEOCONFERENCING

Mansfield University delivers select undergraduate and graduate course work, workshops, career exploration opportunities, in-service programs and other educational programming through distance education technologies. Our distance education classrooms are equipped with videoconferencing equipment, which provides simultaneous interaction between two or more sites and the transmission of voice, data, and video. The videoconferencing systems deliver high quality audio and video. Course work may be taken by students while in high school, by adults who plan to pursue a degree, by graduate students for in-service, graduate credits, or to meet ACT 48 requirements, and by individuals who are seeking innovative and creative course offerings for enrichment.

All academic course work offered through this technology meets academic departmental standards and earns Mansfield University credits. This technology enables students who are geographically remote to enroll in university courses and programs from accessible locations and at convenient times.

ONLINE COURSES

Mansfield University also offers you the convenience and flexibility of taking online courses at the undergraduate and graduate level. These courses can be completed without leaving home and at your convenience. To learn more about online courses at Mansfield University, call the Center for Lifelong Learning at (800) 661-3640 or e-mail us at online@mansfield.edu. Students enrolling in these courses must have access to ISP (Internet Service Provider), e-mail, an Internet browser (Internet Explorer 5.5 or better), a computer (Pentium II, III or 4 preferred), and Windows (95 or better). All students are provided electronic library services, which include library and information CD-ROM databases and collections. Mansfield University works collaboratively with the Pennsylvania State System of Higher Education (SSHE) universities and the Keystone University Network. For more information visit our website at http://cll.mnsfld.edu.

All students registered for an online course must visit the Center for Lifelong Learning's website for critical information, resources available, and directions relative to responsibilities in taking a course online at Mansfield University. Website: cll.mansfield.edu/OnlineStudentResponsibilities.cfm.

WORKFORCE DEVELOPMENT

The Center for Lifelong Learning offers high quality, cost-effective customized training & services for businesses, agencies and organizations of any size. Computer, basic skills and professional development programs are offered to develop new skills and meet the individual needs of area employees and employers. Courses are developed for new hires, the highly skilled workforce, retraining current employees and the underemployed.

The Technology Outreach Center provides high-quality conference, classroom and meeting facilities. Our conference rooms, videoconferencing facilities and computer laboratory facilities are available for corporate company-based training and conferences.

Mansfield University is a WEDnet provider and assists qualified businesses with PA's Guaranteed Free Training Program. Customized training workshops are developed in response to identified needs. For further information, contact Lindsey Sikorski, 570-662-4808 or email lsikorsk@mansfield.edu.

Professional and Personal Development

These non-credit programs are designed to assist participants to learn new skills, keep current with changing technologies, explore career options and engage in enriching

activities. Whether you are a young child, parent, or senior citizen the Center for Lifelong Learning has programs for you. For further information, contact Lindsey Sikorski, 570-662-4838 or email lsikorsk@mansfield.edu.

MUNICIPAL POLICE TRAINING ACADEMY

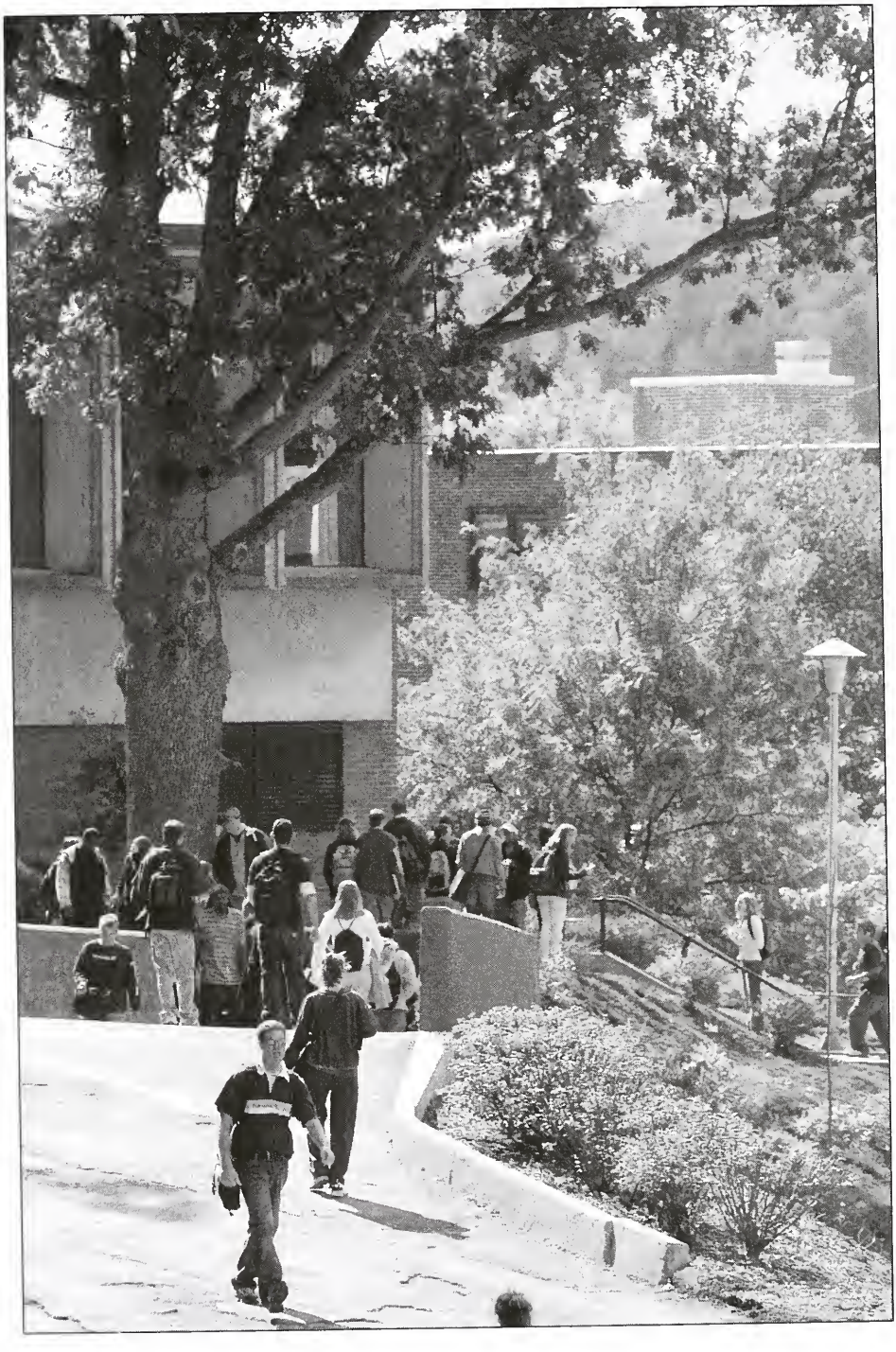
Under PA ACT 120, this 750 hour training program is required to become a municipal police officer in the Commonwealth of Pennsylvania. Mansfield University is an approved school for the Municipal Police Officers' Education and Training Commission. Our Academy provides each cadet with the professional skills and knowledge necessary to become successful law enforcement officers. Our full time Academy enables cadets to accelerate their training. Our part time program allows cadets the opportunity to participate in our training program while attending college. Graduates of the Police Academy are also eligible to receive 19 college credits.

For more information about this program contact the Center for Lifelong Learning at 570-662-4866/4974, 800-661-3640, visit the website at cll.Mansfield.edu or email Barbara Corrigan at bcorriga@mansfield.edu.

ADULT BASIC EDUCATION

The Center for Lifelong Learning's Adult Basic Education programs promote and support learning by offering free classes and/or tutors to all who need help in obtaining their educational goals. Classes include Adult Basic Education, GED, English as a Second Language, and computer aided instruction.

All classes and books are free, open to the public, and are not based on income. Classes are conveniently located throughout Tioga County. For further information contact Cyndi Compton at 570-662-4746 or 800-661-3640 or email ccompton@mansfield.edu.



III. EXPENSES

This information is based on student charges for the 2003/2004 academic year. Tuition and fees for 2004/2005 are finalized after this catalog goes to press. Therefore, this information is subject to change without notice. We include this information so students and their families can estimate expenses.

ADMISSION FEES (NON-REFUNDABLE)

Application Fee $ 25

Students applying for admission or readmission pay this fee when submitting their application.

Advance Deposit $220

Required upon acceptance of the offer of admission. It is transferable to a revised admission date within one year upon the approval of the Director of Admissions.

TUITION (PER SEMESTER)

	Residents of Pennsylvania	Residents of Other States	*Good Neighbor
FULL-TIME UNDERGRADUATE			
12-18 credits	$2299	$5748	$3794
FULL-TIME GRADUATE			
9-15 credits	$2759	$4415	$4415
PART-TIME UNDERGRADUATE			
under 12 credits			
over 18 credits	$192/cr	$479/cr	$316/cr
PART-TIME GRADUATE			
under 9 credits			
over 15 credits	$307/cr	$491. /cr	$491/cr

Note: Students taking a combination of undergraduate & graduate credits are charged at the course level and will not be combined for the full-time basic fee rate. Undergraduate tuition costs are reduced for graduate students who qualify as a Good Neighbor.

Online Course Tuition Rate:

Online courses (section 190-199) have a discounted non-resident tuition rate of $316 per credit for undergraduate courses and $461 per credit for graduate courses.

Audit fee:

Part-time, non-degree seeking students and residents of the region may audit a course for $50 with the permission of the course instructor.

Senior Citizen Tuition Waiver: Residents of the region aged 62 or over and receiving social security benefits may enroll in university undergraduate courses if space is available with no tuition charge.

Summer session tuition is charged at the per credit rate.

HOUSING/RESIDENCE HALL STUDENT FEES (per semester)

Double Room	$1712
Private Room	$2568
Mini-Single	$2140

Requests for a private room are processed by the Housing Office, 120 Pinecrest, and are granted on a space available basis. Payment does not guarantee a private room.

19 meals ($100 flex)	$1031
14 meals ($100 flex)	$912
10 meals ($150 flex)	$877
175 meal block ($100 flex)	$848
75 meal block ($100 flex)	$614
Flex Only	$100**

**off campus/commuter students only

Flex dollars are built into each meal plan and may be used as cash at any dining location. You may buy additional flex dollars in increments of $25. Unused flex dollars are carried over from fall to spring semester. Unused flex dollars at the close of the spring semester are forfeited.

Room rates include telephone service (does not include toll charges). Linens and pillows are not provided.

All residence hall students must use dining services. Dining fees are assessed regardless of whether or not dining services are actually used.

All new residence hall students are automatically charged with the 14 meal plan. Requests to change to the 19 meal plan must be made by August 1. Changes to original dining selections are not permitted after the semester begins.

Dining exemption forms for medical reasons are available at the Office of the Vice President for Student Affairs and must be initiated before the beginning of a semester. Dining charges are assessed until approval for an exemption is granted.

All degree-seeking students are required to live on campus unless they are commuting from home. Approval to move out of the residence halls must be obtained from the Director of Residence Life, 120 Pinecrest.

TECHNOLOGY FEE

This fee is paid by all students specifically to increase the investment in instructional technology.

$50	Full Time Res. Undergrad 12+ cr.
	Full Time Res. Graduate 9+ cr.
$25	Part Time Res. Undergrad 1-11 cr.
	Part Time Res. Graduate 1-8 cr.
$75	Full Time Non Res. Undergrad 12+ cr.
	Full Time Non Res. Graduate 9+ cr.
$38	Part Time Non Res. Undergrad 1-11 cr
	Part time Non Res. Graduate 1-8 cr.

COMMUNITY BUILDING FEE

This fee is paid by all students to support the operating costs and debt service for the Student Center.

UNDERGRADUATE	
1 to 6 credits	$19.25
7 to 8 credits	$38.50
9 or more credits	$77.00
GRADUATE	
1 to 5 credits	$19.25
6 to 8 credits	$38.50
9 or more credits	$77.00

EDUCATION FEE

This fee is paid by all students to support high-cost programs, labs, and academic equipment.

Full—time Undergraduate (12+ credits)	$229
*Part—time per credit (less than 12 credits)	$19/cr
Full—time Graduate (9+ credits)	$386
*Part—time per credit (less than 9 credits)	$42/cr

*Per credit rate not to exceed full—time rate per semester.

HEALTH FEE

Primary medical care is provided to registered full-time and part-time students while the university is in session.

Undergraduate	
7 to 11 credits	$14
12 credits and over	$28
Graduate	
7-8 credits	$14 (optional)
9 credits and over	$28

FITNESS CENTER FEE

All undergraduate, degree-seeking students are assessed this fee to support the debt service and operating costs of the fitness center.

Undergraduate		Graduate (optional)	
1 to 6 credits	$32	1 to 5 credits	$32
7 to 11 credits	$64	6 to 8 credits	$64
12 credits and over	$128	9 credits & over	$128

STUDENT ACTIVITY FEE

This fee was established by the Student Government Association to support student activities.

Undergraduate		Graduate (optional)	
7 to 11 credits	$75	6 to 8 credits	$75
12 credits and over	$150	9 credits & over	$150

OTHER FEES

DEFERRED PAYMENT FEE

Students may defer payment up to one-half of the balance due for six weeks after the first day of the semester. The balance due is defined as the total fees for the current semester, less approved financial aid. Nonpayment of the full balance due incurs the $25 fee.

LATE PAYMENT CHARGE

A Late Payment charge will be assessed if a student's account balance (net of approved financial aid) is not paid in full at the end of the semester deferred payment period (six weeks from the start of the semester). The amount of the Late Payment charge is proportional to the account balance as described in the following table.

Account Balance Due (AB)	Late Payment Charge
AB ≤ $100	0
$100 < AB ≤ $1,000	$10
$1,000 < AB ≤ $2,500	$25
$2,500 < AB ≤ $5,000	$50
$5,000 < AB	$75

RETURNED CHECK FEE

A $25 fee is charged for each check returned by the bank.

CERTIFICATION FEE

Teacher certification applications are processed in the Enrollment Services Office. $15
(Money Order only)

CREDIT BY EXAMINATION FEE

One third of the undergraduate fee per credit must be paid and approval received from the Provost before taking the examination. (per exam)

PARKING DECAL FEE

This fee is for a permit valid from September through August.

Commuter Student	$25
Resident Student	$50

TRANSCRIPT FEE

Official Transcript Charge: An Official Transcript charge of $5, to be paid in advance, will be assessed for each official transcript provided by the University. The charge includes the cost of postage to a United States destination. Students desiring special handling or out-of-country mailings will be assessed the cost of those additional services. Unofficial transcripts are provided at no cost. All delinquent financial obligations must be cleared prior to the release of transcripts.

EXAM/TEST FEES

Contact Career Development and Placement Services for information about the following tests and fees: Miller Analogies Test; National Teachers Exam (NTE); Graduate Record Exam (GRE); Scholastic Aptitude Test (SAT). Information regarding the College Level Examination Program (CLEP) may be obtained from the Admissions Office.

REFUNDS & ADJUSTMENTS OF CHARGES

The following information is subject to change without notice.

WITHDRAWAL FROM THE UNIVERSITY (OR ALL COURSEWORK)

Tuition, housing, and miscellaneous fees are adjusted for all students according to the refund schedule. Dining adjustments are pro-rated on a weekly basis.

First day of class	100%
First week	90%
Second week	80%
Third week	70%
Fourth week	60%
Fifth week	50%
Sixth week	No Refund

Tuition and miscellaneous fees will be adjusted at 100% through the drop period. There is no fee adjustment for course withdrawals. All requests for refunds should be in writing to the Student Accounts Office.

FINANCIAL OBLIGATION

Failure to meet your financial obligation by the due dates may result in classes cancelled, future registrations blocked, and transcripts withheld. The minimum amount required to confirm your registration is your total charge, LESS financial aid, DIVIDED by two, PLUS any beginning balance. Payment of the minimum amount due will allow you to defer the remaining balance due for six weeks. Failure to make full payment will automatically incur a deferred payment fee of $25.

DELINQUENT ACCOUNTS

You are not permitted to register for course work, receive a diploma, or obtain official transcripts until all overdue accounts have been paid. Delinquent accounts may be assessed collection costs for in-house or collection agency assignment. Students requesting transcripts are encouraged to pay any outstanding balance by money order or cashiers check to avoid a two-week clearing period on personal checks.

RESIDENCY

As a student, you are classified as a Pennsylvania resident for tuition purposes if you have a Pennsylvania domicile.

Domicile is the place where you intend to and do permanently reside. Because the determination of whether you intend to reside indefinitely in Pennsylvania is subjective, documentary evidence, statements from disinterested persons, and the presumptions set forth below are considered:

a) Continuous residence in Pennsylvania for a period of 12 months prior to registration as a student at an institution of higher education in Pennsylvania creates a presumption of domicile. A student is presumed not to be a domiciliary if he/she has resided for a shorter period before attending an institution of higher education, but the student may rebut this presumption by clear and convincing evidence.

b) Students who are not United States citizens and have nonimmigrant visas or lack a visa are presumed not to be domiciled in Pennsylvania, but they may rebut this presumption by clear and convincing evidence.

c) A minor is presumed to have the domicile of his or her parents or guardian. The age of majority for establishing a domicile for tuition purposes is 22. However, a minor may prove financial emancipation and thereby prove Pennsylvania domicile through clear and convincing evidence.

d) A United States government employee or a member of the armed forces who was domiciled in Pennsylvania immediately preceding entry into government service and who has continuously maintained Pennsylvania as his or her declared legal

residence shall be presumed to have a Pennsylvania domicile. Nonresidents stationed in Pennsylvania for military service shall be deemed Pennsylvania domiciliaries.

e) A student receiving a scholarship, loan or grant, dependent upon maintaining domicile in a state other than Pennsylvania is presumed to be domiciled in the state from which he/she is receiving financial aid.

A student may challenge his/her residence classification by submitting a written appeal to the controller. If the student is not satisfied, the decision may be appealed in writing to the Office of the Chancellor, State System of Higher Education, within 30 days. The decision of the chancellor is considered final. The effective date of any reclassification resulting from the students challenge is determined by the controller based on when the petition was filed. A student who changes domicile from Pennsylvania to another state must promptly give written notice to the University.

New York residents of the following 16 counties are considered "Good Neighbors" and are eligible for a reduced undergraduate tuition rate: Broome, Cayuga, Chemung, Cortland, Livingston, Monroe, Onondaga, Ontario, Oswego, Schuyler, Seneca, Steuben, Tompkins, Tioga, Wayne, and Yates.

New York residency requirements follow the same basic criteria used in determining PA residency.

IV. FINANCIAL AID

The Financial Planning and Financial Aid Offices provide information and assist students and their families in meeting college expenses. We inform students of application procedures and deadlines, types of aid available, eligibility requirements, and other pertinent data.

As a state university, our tuition is substantially lower than many other colleges. However, the combination of college expenses still requires financial aid for many students. While we help in any way we can, the basic financial responsibility for a college education continues to rest with the student and his/her family.

Matriculation at Mansfield University is by semester. As a student you are expected to meet the expenses of the upcoming term without assistance unless such aid has been previously arranged and confirmed. Mansfield University participates in the major federal and state financial aid programs. There are three forms of aid: grants, loans, and college work study (part-time employment). Grants include the Federal Pell grants, the Pennsylvania state grant, the Federal Supplemental Educational Opportunity Grant, as well as institutional and private grants. Loans include the Federal Stafford Loans, the Federal Perkins loans, and the Federal Plus Loan for parents of undergraduate students. In addition, students may borrow additional funds should they wish to do so through the Alternative Loan Program. Federal work-study (part-time campus employment) is funded by federal dollars and is awarded to students with demonstrated financial need. Non-need based institutional work-study is also awarded.

We emphasize the following points:

1. File for financial aid immediately upon confirmed admission to Mansfield University.
2. To apply for aid, file the Free Application For Federal Student Aid (FAFSA) and the institutional application (for freshman).
3. The important deadlines for financial aid are March 15 for new students and currently enrolled students. PHEAA has a deadline date of May 1 for the PA state grant program.
4. Identify Mansfield University (003324) as an institution of choice on the FAFSA application.
5. You are considered a sophomore with 31-60 credits, a junior with 61-90 credits and a senior with 91 or more credits. This is important for Federal Stafford Loan purposes.

Students and parents may call the Financial Aid Office at (570) 662-4129 with questions at any time. We are here to help you. In addition, new students may want to contact the Financial Planning Office regarding scholarships or for assistance with the FAFSA at (570) 662-4878.

SATISFACTORY ACADEMIC PROGRESS AT MANSFIELD UNIVERSITY

To continue receiving financial aid at Mansfield University, you are required to make satisfactory academic progress toward the educational objective that you have chosen. If you do not maintain satisfactory academic progress, you will be ineligible for further financial assistance — at least until you are making satisfactory academic progress once again. Financial assistance includes: Federal Pell grant, FSEOG grant, Federal Work-Study, PHEAA grant, Federal Perkins loans, Federal Stafford subsidized and unsubsidized loans, Federal PLUS loans, and other grant, scholarship, and loan programs that require satisfactory academic progress.

There are <u>two</u> standards you must meet to maintain satisfactory academic progress: a quantitative standard and a qualitative standard. Each standard is explained in the next

section. It is very important that you understand and meet these standards; otherwise you could lose some or all of your financial aid.

Quantitative Standard

At Mansfield University, the quantitative standard measures the number of credit hours you attempt (including courses you registered for but did not complete, courses you withdrew from, courses you failed, or courses you otherwise did not complete) versus the number of credit hours successfully completed (courses for which you received a passing grade). This quantitative standard of credits attempted and credits completed is checked for all students (who attempt at least six semester hours) at the end of each spring semester for the previous three semesters: the spring semester just completed, the prior fall and prior summer semesters.

Courses evaluated as complete and which earn credit toward this quantitative standard are graded: A through D-, P (pass), or S (satisfactory). The credits earned in such courses count toward the quantitative standard as long as they are courses for which the student has not already received credit. For example, replacing a D grade (and 3 credits) with a C+ grade improves your overall GPA, but it does not add a new three credits to your total of credits earned.

Courses which do not earn credit toward the quantitative standard are: F, U (unsatisfactory), W (withdraw), I (incomplete), or courses you have already received credit for previously.

At the end of each spring, you must have earned the minimum number of new credits based upon your enrollment status in order to maintain your financial aid eligibility. The table below shows the number of credits required for each enrollment status.

Your enrollment status can be any one of the following:

Status	Code	Credits enrolled Per Semester	Credits Completed Per Semester	Annual Credits to be completed
Full-time	FT	12 credits or more	12	24
Three-quarter-time	QT	9 – 11 credits	9	18
Half-time	HT	6 – 8 credits	6	12
Less than half-time	LH	3 - 5 credits	3	6
Not enrolled	NE	0 credits		

Please note that quantitative standards are reviewed on a semester status based on the number of attempted credits. It is important to understand the enrollment status, i.e. full-time or part-time to determine the number of credits that must be completed. For example if you were enrolled as follows:

		Credits enrolled	Credits required to be completed
Fall	Three-quarter-time	11	9
Spring	Full-time	15	12
Minimum number of credits completed to meet Quantitative standards			21

Quantitative standards are reviewed in May of each year for the previous fall and spring semester. Summer semesters will be reviewed on an individual student basis.

If you have not completed the minimum number of credits by the end of spring, you must make up the number you are short (without aid) during the summer semester to be eligible again for aid in the fall.

If you are making up credits during the summer, you must notify the Director of Financial Aid by June 1 and provide the following information:

1. The name of the course (s) in which you have enrolled.
2. The number of credits you are attempting.
3. The college at which you will be taking the course(s).

The Financial Aid Office will then proceed on the assumption that you will pass the necessary courses, earn the required number of credits, be eligible for aid in the fall, and the office will process your award package accordingly for the coming fall and spring semesters. Upon successful completion of the course (s), you must present an official transcript of your grade(s) before the fall semester begins or your aid will be canceled.

If you do not follow the steps above by June 1, or fail to present a transcript of your passing grades, or otherwise fail to make up the necessary credits in the summer, you will not be eligible for financial assistance in the fall or any semester thereafter until the necessary credits have been made up. This standard applies regardless of the amount of time you have been out of school.

Qualitative Standards

Unlike the quantitative standard which is reviewed once a year (after the spring semester), the qualitative standard is monitored each semester by the Academic Records Office. The financial aid qualitative standard is directly related to your Quality Point Average (QPA) and is consistent with Mansfield University's Minimum Academic Standards. You are required to earn a QPA at or above the following minimum standards.

Credits Attempted (including transfer hours)	Minimum QPA required
0-15	1.20
16-30	1.40
31-45	1.60
46-60	1.80
61+	2.00

If your QPA falls below 2.00, you are placed on academic probation until your QPA is at least 2.00.

If your QPA is below the minimum QPA at the end of any semester, you will be dismissed from the University and become ineligible for financial aid unless you are reinstated through one of two processes:

1. After a one year interval or
2. By appeal to the Academic Standards Review Board (ASRB)

If you are reinstated by either of these methods, your qualitative standards are considered to have been waived by the Financial Aid Office. However, if your quantitative standards have not been met, you still must complete the necessary hours without financial assistance in a subsequent semester before you can receive financial aid again (regardless of qualitative reinstatement).

Maximum Time Frame to Complete Your Program

You are allowed 150% of the published length of your educational program for completion. This applies regardless of how many times you change majors. This generally means a maximum of 180-192 hours attempted for most 4-year bachelor degree programs (120-128 hours x 150%) and 90-96 hours attempted for most 2-year associate degree programs (60-64 hours x 150%). Programs with different number of hours are calculated in similar ways.

Waiver and Reinstatement

For quantitative measures, you can be reinstated on your own efforts by making up the number of credits you are short without the assistance of financial aid. You can earn these needed credits at Mansfield University or any other accredited postsecondary institution. This is the preferred manner of reinstatement. If extenuating circumstances led to your failure to complete the necessary quantitative requirements, you may appeal in writing for a waiver of the quantitative standards to the Director of Financial Aid and the PHEAA state grant division (if applicable). You are expected to appeal to both and ordinarily the Financial Aid Office will attempt to work with the PHEAA state grant division (if applicable).

For qualitative measures, the Financial Aid Office follows University policy, and the decisions of the Academic Standards Review Board (ASRB) and the Office of the Provost with regard to reinstatements. If a dismissal is appealed and subsequent re-admittance to the university is granted, your qualitative standards are considered to have been waived for mitigating circumstances.

In addition to appealing in writing and providing adequate documentation, you must meet with the Director of Financial Aid to discuss any waivers of satisfactory progress.

Additional PA State Grant Policies

In addition to the policies stated above, the Pennsylvania Higher Education Assistance Agency (PHEAA) lists the following policies relating to Satisfactory Academic Progress for the State grant program:

1. PA residents are normally limited to 8 full-time equivalent semesters of PHEAA grant eligibility (including summer grants), except for bonafide 5-year programs.
2. To be eligible for a PA State grant, the quantitative standards are applied only for credits for which aid was received.
3. Repeat courses: If you repeat a course passed in an earlier term, it may be counted to raise your enrollment status (to full-time or half-time), but it will not be counted in satisfactory progress toward the minimum quantitative standard for yearly evaluation purposes.

The quantitative and qualitative standards that must be met to maintain financial aid eligibility can be confusing, especially to new students. Feel free to visit or call the Financial Aid Office for assistance. (107 South Hall, 570-662-4129)

VETERANS BENEFITS

Eligible students may qualify for Veterans Educational Benefits as well as financial aid. The application procedure for financial aid is the same as that outlined for any regular student. Students may qualify for Veterans Educational Benefits through several different programs run by the Veterans Administration. These forms are available through the Veterans Certifying Official, Room 122, Alumni Hall. In addition, PA Veterans who are honorably discharged may be eligible for a PA State Grant for up to 80% of their annual tuition provided they apply by May 1 each year.

FEDERAL GRANT PROGRAMS

Federal Pell Grants

The Federal Pell Grant is for students pursuing their first undergraduate degree. The award amounts can vary depending on eligibility and are subject to change annually. For the 2002-2003 academic year awards range from $400 to $4050 annually. To apply, complete a Free Application for Federal Student Aid (FAFSA).

Federal Supplemental Educational Opportunity Grant (FSEOG)
The Federal Supplemental Educational Opportunity Grant (FSEOG) is for undergraduate students with exceptional financial need and you must qualify for a Federal Pell Grant. FSEOG grants at Mansfield University normally range from $400 - $1000 per academic year. Funding is very limited in this program, therefore, the Free Application for Federal Student Aid (FAFSA) must be received and processed by the Federal Student Aid Programs by March 15, 2004 to be considered for this grant.

STATE GRANT PROGRAMS

The Pennsylvania Higher Education Assistance Agency (PHEAA) provides State Grants to help Pennsylvania residents with financial need attend approved institutions of higher education. PA State Grants are available to both full and part-time students.

Grant recipients are expected to work during the summer to assist in meeting expenses and parents are expected to contribute according to their ability. Grant size depends upon educational expenses, family size, and family resources.

PHEAA Grants are subject to annual review and may change from year-to-year. Renewal depends upon satisfactory academic standing, continued financial need, and the availability of funds. Applications (Free Application for Federal Student Aid) may be obtained from high school guidance officers, the Financial Planning Office or the Financial Aid Office. The application deadline is May 1.

STUDENT EMPLOYMENT PROGRAMS

Federal College Work-Study is a federally funded program awarded to students who demonstrate a financial need. It pays minimum wage, and a student cannot work more than 20 hours per week. In fact, most students work an average of 7 – 10 hours per week. The employment opportunities on campus include administrative areas, student center, athletics, the library, academic areas, security, laboratory assistant, etc. To apply, complete the FAFSA. The submitted FAFSA must be received by the Federal Processing Center by March 15, 2004.

Institutional Work-Study is a Mansfield University funded program. It differs from the Federal College Work-Study Program in that a student does not have to show a demonstrated financial need in order to work. The pay rate, once again, is minimum wage and students cannot exceed 20 hours of work a week. To apply, complete a Free Application for Federal Student Aid (FAFSA). The submitted FAFSA must be received by the Federal Processing Center by March 15, 2004.

LOAN PROGRAMS

Federal Perkins Loans. This program is for students who are enrolled at least half time (six credits) and need a loan to meet their educational expenses.

Maximum loans are $4,000 per year for undergraduate students and $6,000 per year for graduate students. In an effort to extend the funds to assist as many students as possible the average Perkins Loan is in the $1,000-$2,000 range per academic year. Repayment begins nine months after leaving school with up to 10 years to repay. During the repayment period, five percent interest is charged on the unpaid balance of the principle. To apply, complete a Free Application for Federal Student Aid (FAFSA). The submitted FAFSA must be received by the Federal Processing Center by March 15, 2004.

Federal Subsidized Stafford Loan. These funds are made available by participating lenders to students who demonstrate financial need for the loan. The loan is interest free while the student attends school on at least a half-time basis. Mansfield University determines your eligibility after careful review of the Free Application for Federal Student Aid (FAFSA).

A new electronic loan process was implemented at Mansfield University to expedite this process. To apply: submit a "Federal Stafford Loan Request Form". Your request will be transmitted electronically and a Master Promissory Note will be mailed to you if you are a first time borrower. The Master Promissory Note is intended to be valid for 10 years; you should only be required to sign one note.

To be eligible, you must be enrolled at least half-time (six credits) and meet financial need requirements. The maximum loan for an undergraduate ranges from $2,625 to $5,500 a year. Total loans may not exceed $23,000 for dependent undergraduates and $46,000 for independent undergraduates. The variable interest rate may not exceed 8.25%.

Repayment normally begins six months after leaving school with up to 10 years to repay. The monthly repayment amount depends upon the size of the debt and ability to pay. In most cases repayment must be at least $50 per month unless circumstances agreed upon by the lending institution warrant a lesser amount.

Federal Unsubsidized Stafford Loan. This loan is similar to the Federal Subsidized Stafford Loan program; however, you do not need to have a demonstrated financial need. Interest does accrue on the loan while the student is in school. Students may pay the interest quarterly or capitalize the interest upon repayment.

Federal Parent Loan for Undergraduate Students (PLUS). This program allows parents to borrow from a participating lender for their undergraduate student. A parent can borrow the difference between the cost of education minus any other financial aid received.

To request a PLUS Loan, please contact the Financial Aid Office for a "Federal Parent (PLUS) Loan Request Form". Mansfield University will transmit the loan data electronically and the parent borrower will receive a pre-printed promissory note for signature. For 2004-2005, parents have the option of the PLUS Master Promissory Note. Like the Stafford Loan MPN, the note is good for 10 years; however, parents are required to sign a new note for each dependent student.

The parent usually begins repayment of interest and principle within 60 days of loan disbursement although various forbearance options are available. The variable interest rate may not exceed 9.0%. The rate for 2003-04 was 4.22%.

Additional loan options. Credit-based alternative loans for educational expenses are also available. Various programs offer competitive interest rates, flexible repayment schedules and differing co-signer requirements. If you are interested in an alternative loan, you can contact the lender directly or the Financial Aid Office for additional information, a comparison chart and application materials.

FINANCIAL AID AWARDS AND GRANTS

Approved Title IV aid is paid on account approximately two weeks from the first day of the semester. Aid awarded after the first day will be paid bi-weekly thereafter. Loan checks are credited upon endorsement or when funds are electronically received.

ACADEMIC YEAR DEFINITION

Mansfield University's academic year is a period that contains 30 weeks of instructional time during which a full-time student is expected to complete at least 24 semester hours. The academic year is further described as a Scheduled Academic Year (SAY) that starts at the beginning of fall semester and ends on the last day of the spring semester. The summer sessions are designated as "trailer" terms which follow the SAY. On an individual basis, a student's academic year can be changed to a Borrower-Based Academic Year (BBAY) when determining financial aid eligibility. A BBAY is not a fixed period of calendar

time; instead the beginning and ending dates depend on the student's enrollment and progress. The BBAY does not end until the student has completed the number of weeks and the number of hours in the academic year.

RETURN OF TITLE IV FEDERAL STUDENT AID POLICY

Students who withdraw from all classes prior to completing more than 60 percent of the term will have their Federal aid calculated based on the percentage of the term completed, which shall be calculated as follows:

$$\frac{\text{\# of Days completed by student}}{\text{Total \# of days in the term}}$$

The total number of calendar days in a term excludes any scheduled breaks of five days or more.

Unearned Federal aid (the amount that must be returned to the appropriate program) will be returned in the following order: Unsubsidized Stafford Loans, Subsidized Stafford Loans, Perkins Loans, PLUS Loans, Pell, and SEOG.

REFUND ALLOCATION POLICY

Refunds allocated to a particular program will not exceed the aid originally awarded to a student in that particular program.

A release form must be signed to authorize the University to apply Title IV funds to charges beyond tuition and fees. The release may be rescinded at any time by submitting a written request to the Student Accounts Office. Rescinded authorizations are not retroactive.

Mansfield University Scholarships and Awards

Scholarships

Entering students: All entering students who are regularly admitted to the university are automatically placed into the scholarship review process. A special scholarship application is not required. Students are reviewed on a rolling basis based on acceptance to Mansfield University.

Returning students: Scholarship deadline is March 15th, and a scholarship application is available through the Office of Financial Planning, 122 Alumni Hall. The following scholarship opportunities are available for both entering and returning students. Unless otherwise noted, all scholarships are awarded through the Scholarship Committee. Some of the awards may not be given on an annual basis, and these are noted in the description of each scholarship.

AFSCME Scholarship

This scholarship is presented to a full-time student who has completed 12 credit hours and has achieved a minimum cumulative grade point average of 2.5 on a 4.0 scale. Financial need is also a consideration. Preference is given to a local 2363 bargaining unit employee, dependent or spouse. The award is $1000 per academic year, non-renewable. The recipient is selected by the Scholarship Committee.

All Residence Hall Council Scholarship

This scholarship is presented to upperclass students who reside on campus and demonstrate academic achievement and involvement in residence hall activities. The amount of each award is $1000 for the academic year, non-renewable. The recipient is selected by the Scholarship Committee.

APSCUF Book Scholarship

This scholarship is presented to a freshman who demonstrates academic achievement. It is a $500 award given as a credit at the University Bookstore, non-renewable. The recipient is selected by the Scholarship Committee.

APSCUF Freshman Scholarship

One scholarship is presented to a union member or child of a union member, based on academics and strong union affiliation. The other scholarships are open to all entering freshmen and are based on academic achievement. Both scholarships are $1000, non-renewable, and the recipients are selected by the Scholarship Committee.

Joseph C. and Lois E. Weir Ashkar Scholarship

This scholarship is presented to a student pursuing a degree in secondary teacher education and has completed registration for student teaching for either the fall or spring of the following year. The recipient must be a undergraduate with senior standing at the time of the award, have a minimum 3.2 grade point average in major, exhibit leadership qualities and participate in campus or community organizations, and write a position paper on the importance of character in the committed teacher. The Education and Special Education Department will select the recipient and forward the choice to the Scholarship Committee.

Shirley Sandrock Barnhardt and Robert A. Barnhardt Scholarship
This scholarship is presented to an entering freshman majoring in secondary education, first preference given to math and English. The recipient must be in the top fifth of their high school graduating class, obtain a minimum SAT score of 1200, and participate in scholastic and community organizations along with leadership potential. The scholarship is $1,125 and may be renewed if a 3.0 GPA is maintained. The Education Department Scholarship Committee selects the recipient.

Rhoda Bartell Music Scholarship
This scholarship is presented to an entering freshman with a double reed major. The student must be full-time and maintain a 2.5 cumulative grade point average on a 4.0 scale. This is a $1000 award, non-renewable. The recipient is selected by the Music Department Scholarship Committee upon the recommendation of the double-reed professor.

Baynes String Award Scholarship
This scholarship is presented to an outstanding string student chosen by the string faculty. This award is $500 and is renewable.

Mary Blair Scholarship
This scholarship is a four-year award for an incoming freshman. The scholarship is awarded once every four years, and two scholarships are awarded each time. General scholarship guidelines are used to select recipients. The amount of this award is $1,150. The recipient is selected by the Scholarship Committee.

Blossburg National Bank Scholarship
This scholarship is presented to freshmen students who attended North Penn High School. The scholarship recipients are recommended by teachers at North Penn High School and forwarded to the Scholarship Committee for final approval. The scholarships may be renewed for each of the student's four college years. The amount of this award is $1000.

The Ed Brown Scholarship
This scholarship is presented to a junior with the highest grade point average during their first two years of music theory. Preference is given to a pianist. Award is $250.

Board of Governors Scholarship
The Board of Governors Scholarships were created by the State System of Higher Education. A number of awards for Pennsylvania residents granting a waiver of tuition are awarded after all other forms of aid have been received for the academic year. These scholarships may be renewed for eight semesters if the student maintains the required grade point average. The Board of Governors Scholarship guidelines are used to select recipients.

Board of Governors Priority Program
A number of full and partial tuition waivers for Pennsylvania residents with at least an SAT score of 1000 and a class rank in the top 30%. Priority is given to students in the science/technology and math disciplines. The waiver is renewable by maintaining a 2.5 grade point average.

Dr. Margaretta Bone Scholarship
This scholarship is presented to freshmen students who are majoring in elementary education with an area of concentration in the humanities or English. Academic ability, leadership, and service involvement are considered. The recipient must write an essay and obtain two letters of recommendation. The scholarship may be renewable for three years if the recipient maintains a 3.0 cumulative grade point average. Financial need is also considered. The amount of this award is $1000 per academic year.

Bob Bridgman Scholarship
This scholarship is presented to an entering freshman who is in the 25 percent of his/her senior high school class and has an SAT score of 1000. The recipient must demonstrate the highest traits of leadership, citizenship and character, and show evidence of providing service to others and/or animals and a willingness and desire to continue doing so in the future. The $1,100 award is selected by the Scholarship Committee and may be renewed if the recipient maintains a 3.0 GPA and remains a full-time student.

Denise F. Carter-Onyirimba Memorial Fund
This book scholarship is presented to an incoming fall freshmen who graduated from the Philadelphia School District and is a participant in the MU Act 101 Program. The award will fund three (3) book scholarships (2) fall and (1) spring, not to exceed two-hundred and fifty dollars ($250.00) each. The Denise Faith Carter-Onyirimba Memorial Fund Committee selects the recipients. This award is non-renewable.

H.W. Colegrove Scholarship
This scholarship is awarded to female freshmen students who exhibit strong academic background and are residents of Tioga County, PA. The amount of the award is $1000 and renewable for each of the student's four years provided a 2.0 grade point average is maintained. The recipient is selected by the Scholarship Committee.

The Citizens and Northern Bank Scholarship
A $1,500 scholarship for an entering student from the Citizens and Northern Service region who is a regular admitted student to the University. Preference will be given to a student in a Business-related major.

The Class of 1935 Round Robin Scholarship
A $1,300 scholarship is presented to an entering freshmen who is in the top twenty-five percent of their senior high class, obtains a minimum SAT score of 1000 and demonstrated the highest traits of leadership, citizenship and character. This award is renewable if the recipient maintains a 2.5 grade point average.

The Class of 1953 Scholarship
A scholarship established by donations from the class of 1953. General scholarship guidelines will apply to this renewable award in an amount to be determined.

College Community Services, Inc. Book Scholarship
This scholarship is presented to full-time, upper class students who maintain a 2.8 cumulative grade point average, are involved in extra-curricular activities, and have financial need. A varying number of $250 scholarships are provided in the form of credit for books at the bookstore, and selection is made by the Scholarship Committee.

Stanley D. Conklin Scholarships for Nurses
A renewable scholarship for up to four years enrollment. The amount of the awards are $2000 and are made possible through the generosity of Dr. Conklin who was a highly respected Guthrie Healthcare physician. A varying number of awards will be available for freshman nursing students each year. Candidates must have scored at least 1000 on their SAT test and be in the top two fifths of their graduating class. A grade point average of 2.7 is required for renewal and recipients are determined by the Scholarship Committee.

Albert Crispell Scholarship
This scholarship is presented to a student with senior status who is majoring in elementary education. Preference is first given to residents of Bucks, Luzerne or Wyoming counties. The recipient should display the qualities of a successful educator as determined by the faculty. The scholarship is to offset expenses for books and educational supplies. This is a $425 award paid directly to the Campus Bookstore to help offset book and supply expenses, non-renewable.

The Claverick/Tri-County Rural Electric Cooperative Scholarship
A $450 scholarship is presented to a student who is a dependent of a Claverack of Tri-County Rural Electric Cooperative member. Students must be in the top 50% of their senior class, score over 1000 on the SAT, and enroll as a full time student. In addition, they must demonstrate the highest traits of leadership, citizenship, and character and should have been involved in Youth Tour.

Ruth and Ester Purvis Cook Scholarship
A renewable scholarship of $500 for music majors. Consideration will be given to students in the top 25% of their graduation class with an 1100 SAT score.

Darrin-Dye Scholarship
This scholarship is presented to an entering freshman majoring in music. Recipients are selected based on talent and have an SAT score of 900 or more. This award is $500 per academic year, non-renewable. The selection is made by the Music Department Scholarship Committee.

Hartley B. Dean Scholarship
This scholarship is presented to entering freshmen who have achieved academic excellence and exhibited financial need. Class rank, SAT scores, and involvement in extracurricular activities are taken into consideration. This scholarship is renewable if a minimum 2.0 cumulative grade point average is achieved. The amount of the award is $1000. General scholarship guidelines are used to implement the awards. The number of awards may vary from year to year and selection is made by the Scholarship Committee.

Descartes French Scholarship
The scholarship is supported by funding through faculty members Monique Oyallon and Bernard Kolaski. It is a renewable $600 award for entering French majors. Consideration will be given to students in top 2/5 of their graduating class with a B average in French. An essay is required.

David J. Dick Memorial Award
This scholarship is presented to an outstanding junior or senior of conducting or vocal performance. The amount of the award is $1000, non-renewable. Selection is made by the Music Department Scholarship Committee.

Howard R. and Margaret Doud Scholarship
This scholarship is presented to a freshman music major. To be considered for any additional awards, a 3.0 cumulative grade point average must be maintained. Selection is made by the Music Department Scholarship Committee. Scholarship is be given once every four years.

Grace S. Evans Scholarship
This scholarship is presented to an entering freshman who demonstrates academic achievement. The amount of this award is $500 per academic year, non-renewable. Selection is made by the Scholarship Committee.

Evans Sabo Award
Nancy Evans Sabo was a talented young teacher and, like many members of her family, a graduate and friend of Mansfield University. In her memory her family gives an award of $500 to the graduating secondary education student with the highest grade point average as recorded the semester prior to student teaching.

Arlyne M. Garrity Communications and Theatre Faculty Scholarship
This scholarship is presented to an upperclass student who is majoring in Communications or Theatre and has earned a minimum of 32 credits. There are two $500 non-renewable scholarships and a committee from the Communications and Theatre Department will make recommendations to the Scholarship Committee.

Oliver and Louise George Scholarship
This scholarship is presented to a student based on need and academic standing with preference given to chemistry and science majors. A freshman recipient must have an SAT score of 1,000 or more. Upperclass students must attain a 2.5 GPA and a 2.5 in sciences. Non-renewable. Students may reapply every year. The award is $200 per year and shall be paid directly to the student. Recipient selected by the Scholarship Committee.

Geography and Geology Scholarship
This scholarship is presented to a student majoring within the Geography and Geology Department. An entering freshman must have a minimum SAT score of 1030 or be in the top 30% of their high school graduating class. An upperclassman must have an average or above average grade point average.

James York Glimm Scholarship in English
This scholarship is presented to an entering freshman enrolled in an English B.A. or B.S.E. curriculum and shows potential for developing as a writer and student of literature. The recipient must be in the top two fifths of his or her high school graduating class. Candidates must submit an analytic essay of a short poem or short piece of fiction from several choices supplied by the Languages and Lirerature Department Scholarship Committee. The amount of the scholarship is $450, and may be renewed if the recipient maintains a 3.0 GPA.

GSE Scholarship
This scholarship is presented to an upperclass student. The recipient must be enrolled in studies in the combined MU/PA College of Osteopathic Medicine Program. The amount of this award is $1000. The chairperson of the Biology Department will make a recommendation for this award to the Scholarship Committee.

Halloran Scholarship
This scholarship is presented to an entering freshman who has demonstrated academic achievement. Preference is given to a student who resides in Potter County. The amount of this award is $500 per year for four years, and the recipient is selected by the Scholarship Committee.

Halloran Memorial Scholarship
This scholarship is presented to entering freshmen who have achieved academic excellence. Preference is given to those who reside in Potter County. The amount of this award is $1000, non-renewable. The number of awards may vary from year to year, and recipients are selected by the Scholarship Committee.

Norejane Hendrickson Scholarship
This scholarship is presented to an entering student from a Potter County High School who was in the top 25% of his or her senior class with an SAT of at least 1050. This is a $300 award. The recipient is selected by the Scholarship Committee.

Honors Program Scholarship
This scholarship is presented to upperclass students. The recipients must be continuing students in the Honors Program with high academic standing. The amount of each award is $500.

Linda A. Ballard Hulslander Scholarship
This scholarship is presented to an entering freshman pursuing a degree in nutrition and dietetics. Recipients must be in the top two fifths of their high school graduating class and have an SAT score of 1000 or more. This scholarship may be renewable if the recipient maintains a 3.0 cumulative grade point average and remains in the degree program. The recipient is selected by the Scholarship Committee.

Albert Smith/Marcella Hyde-Smith Scholarship
A $450 scholarship for a currently enrolled teacher education major. Scholarship is renewable, student must have at least a 3.0 GPA, and must have completed four semesters for initial consideration.

Eugene Jones Music Vocalist Scholarship
This scholarship is presented to entering freshmen majoring in music whose primary instrument is voice. The recipient must be in the top 20 percent of their high school class, 1100 SAT score, achieve a minimum score of 80 on the Theory Placement Test and perform an outstanding audition for department admission.

Wendell and Jobyna Judson Scholarship
This scholarship is presented to an entering freshman who graduated in the top two fifths of their high school senior class and achieved a minimum SAT score of 1000. The

scholarship is renewable if the recipient maintains a 2.5 grade point average. The amount of the renewable award is $1000. Preference in awarding the scholarship is given to residents of Bradford County, PA. Recipients are selected by the Scholarship Committee.

Rod C. Kelchner President's Scholarship
This scholarship is presented to a recipient who is an entering freshman, graduated in the top two fifths of his or her high school class, and obtained a minimum SAT score of 1000. This scholarship is renewable if the recipient maintains a 2.5 grade point average. The amount of this award is $1000. A varying number of awards will be available each year. Recipients are selected by the Scholarship Committee.

Martin Luther King Jr. Scholarship
The Martin Luther King Jr. Scholarship is supported through the Mansfield University Foundation. The award is $1000 for the academic year, non-renewable. General scholarship guidelines are used to select an entering student as the recipient with the Scholarship Committee making the selection.

Jean E. Koch Memorial Scholarship
The Jean E. Koch Memorial Scholarship is supported by income from a bequest by Jean Koch invested in the Alumni Memorial Scholarship fund. This scholarship is presented to an entering freshman who demonstrates academic achievement. The amount of this award is $1300 per academic year. General scholarship guidelines are used to select the recipient, with the decision being made by the Scholarship Committee.

Carrie Krise Carl Scholarship
A scholarship established by Eleanor Kehrer in memory of Carrie Krise Carl. Preference will be given to a graduate from a Lycoming County high school planning on majoring in elementary education. Student must be in top 25% of their graduating class. The award is $500 and is renewable.

Jean Skrynski Kreuscher Scholarship
This scholarship is presented to students who have been accepted for enrollment as music majors or currently enrolled music majors. Recipients are selected on talent without regard for financial need. Recipients must have attained SAT scores of 900 or more. The number of scholarships is determined annually. Several $1000 awards and several $500 non-renewable awards are given for the academic year. A committee of music faculty reviews applicants and forward recommendations to the Scholarship Committee.

Eileen Kuritz Scholarship
A $1000 scholarship in honor of Eileen Kuritz Student must be entering dietetics or nutrition major with an SAT score of at least 1050 and be in the top 2/5 of their graduating class.

F.M. Lawrence Scholarship
The Frederika Michelfeder Lawrence scholarship is a scholarship for an entering elementary education major. Student must be in the top 25% of their graduating class with an SAT score of 1100. Amount and number of awards may vary from year to year.

Leadership Scholarship
Varying number of $1,500 awards are available for entering students from Pennsylvania. Students should be in the top 2/5 of their graduating class with an SAT score of at least 1000. Preference is given to students in under subscribed majors.

Reva Dickinson Learn and Dana Lee Learn Endowed Scholarship
Known as the "Learn Presidential Scholars," this scholarship is presented to recipients who are entering freshman, graduated in the top fifth of their high school senior class, achieved a minimum SAT score of 1200, and participated in scholastic and community organizations and exhibited leadership potential. This scholarship may be renewed if the recipient maintains a minimum 3.0 grade point average and demonstrates participation in leadership activities. A varying number of $2000 renewable scholarships are available. Recipients are selected by the Scholarship Committee.

S. Manford Lloyd Memorial Scholarship
This scholarship is presented to a freshman student who is majoring in math with strong academic credentials. Recipients must be in the top 10% of their high school graduating class. SAT scores are also considered. This scholarship may be renewed if a 3.0 cumulative grade point average is maintained each semester. This award is $1200 and is renewable. Recipient is selected by the Scholarship Committee.

Ferris J. Lutes Athletic Scholarship
Recipients must be a member of the men's intercollegiate basketball team, and demonstrate the highest traits of leadership, citizenship, behavior and character both on and off the playing field.

Helen Dieffenbach Lutes Athletic Scholarship
Recipients must be a member of a women's intercollegiate athletic team, and demonstrate the highest traits of leadership, citizenship, behavior and character both on and off the playing field.

Mansfield University Dining Services Scholarship
This scholarship is presented to full-time, upperclass students. Recipients must have a 2.8 cumulative grade point average, be involved in campus organization/service activities and have financial need. Two full meal plan scholarships for the academic year are awarded. Recipients are selected by the Scholarship Committee.

Joseph Maresco Scholarship
A $600 scholarship created by former Vice President of Student Affairs Joseph Maresco and his wife Maryann. The scholarship is for currently enrolled students with a minimum grade point average of 2.5 who makes a contribution to activities that serve the University Community.

Mansfield University Foundation Scholarship
This scholarship is presented to entering freshmen who demonstrate academic achievement and involvement in extracurricular and community activities. The number of awards varies from year to year. Scholarships are $1000 per academic year and are non-renewable. General scholarship guidelines are used to select the recipients with the decision being made by the Scholarship Committee.

Jonathan G. March Scholarship
This scholarship is presented to a freshman student from Tioga County, PA. The student selected for this award is distinguished more by effort and commitment to higher education goals than by past academic achievement. This award is $1000 per academic year with the recipient being chosen by the Scholarship Committee.

Louise C. McConnell Choral Scholarship
This scholarship is presented to a fulltime, upperclass female student with a 3.0 cumulative grade point average who is a member of the Concert Choir and has performed an outstanding audition. The amount of the scholarship is $750 and a committee of music faculty will review applicants and forward the recommendation to the Scholarship Committee.

Edward McInroy Scholarship
This scholarship is presented to a freshman student from Tioga County, PA. The recipient is distinguished more by effort and commitment to higher education goals. The amount of this award is $1200 and non-renewable. Recipient is selected by the Scholarship Committee.

Melhuish Elementary Education Scholarship
Applicants must be majoring in elementary education, have earned 64-95 credits with an overall GPA of 3.30. An essay must also be submitted describing their service and volunteer work. The award is $1000. The recipient is selected by the Education and Special Education Department.

William Merryman Nursing Scholarship
This scholarship is presented to a student majoring in nursing with a cumulative GPA of 3.5 or higher. Students applying for this $500 non-renewable scholarship must submit a narrative describing their educational goals, extra-curricular activities, community service and a statement of why they should be considered for this award.

Corrine L. Miller Scholarship
This scholarship is presented to an elementary or special education major who has completed at least 64 credits and passed the "gates" requirements for acceptance as a certification candidate. Applicants must demonstrate the attitudes and skills of an innovative, risk-taking teacher and community leader, and based on a specific set of questions. The amount of this award is $500. The scholarship may be received for a second year assuming the recipient continues to meet the scholarship criteria. The Education and Special Education Department selects the recipient.

Music Scholarships
This scholarship is presented to upperclass students who have achieved a minimum 2.5 cumulative grade point average, completed 32 credit hours and completed a successful audition before the music faculty.

Stanley Henry Nauman Scholarship
This scholarship is presented to a deserving undergraduate student in the Wildlife and/ or Fisheries program. A committee of biology faculty reviews applications and forwards a recommendation to the Scholarship Committee. This is a $200 non-renewable award.

Northern Appalachain Storytelling Scholarship
A $1,400 scholarship for an entering student majoring in Broadcasting of Journalism. Student must have an SAT score of 1100 with a minimum verbal score of 650.

Jacob Oberly Earth Science Scholarship
This scholarship is presented to a student majoring in earth and space science education with a cumulative GPA of 3.5 or higher. Students applying for this $500 non-renewable scholarship must submit a narrative describing their educational goals, extra-curricular activities, community service, and a statement of why they should be considered for this award.

Horace B. Packer Foundation Scholarship
This scholarship is presented to entering freshmen who must be a resident of Tioga County, the top fifth of their high school graduating class, obtain an SAT of 1200 or more and participate in scholastic and community organizations and demonstrate leadership potential. This scholarship may be renewed if the recipient maintains a 3.0 cumulative grade point average and continues to demonstrate participation in leadership activities. The Horace B. Packer Foundation will provide four $2000 scholarships for incoming students which are renewable for up to four years of enrollment. Recipients are selected by the Scholarship Committee.

Jenna Rose Pastelyak Scholarship
A $500 scholarship established in the memory of Jenna Rose Pastelyak by her family and friends. Recipients must be an entering freshman from Northampton County, PA with a minimum grade point average of 2.5 with at least a 1000 on the SAT. Student should demonstrate traits of leadership, citizenship and character.

Phi Delta Kappa Scholarship
The Phi Delta Kappa Scholarship was created by the Mansfield Chapter of Phi Delta Kappa, Professional Education Fraternity. The award is $500, non-renewable. The recipient is selected from applicants currently enrolled in second year, third year, or fourth year of studies in the Education and Special Education Department. Applicants must submit an essay addressing the important problems facing education today and suggest possible solutions.

Maryon Farrer Powell Scholarship
This scholarship is presented to a student who is majoring in dietetics. The recipient of this scholarship can either be an entering or currently enrolled student who demonstrates strong academic ability and has financial need. This is a $850 non-renewable award. General scholarship guidelines are used to select the recipient, with the decision being made by the Scholarship Committee.

Presser Scholarship
This scholarship is presented to a student who demonstrates excellence in academics and music. The recipient must excel in applied music and academic subjects with at least a 3.0 cumulative grade point average. The scholarship is based on merit. The recipient must be a full-time student for the academic year after receiving the scholarship. This award amount may vary for each academic year. A committee of music faculty review the applicants and forward their recommendation to the Scholarship Committee. The amount of the scholarship is $2250 and is non-renewable.

Mary and Robert Rodine Scholarship
The Rodine Scholarship is a $750 award for a full time student who is of at least a sophomore status from Lackawanna or Luzerne Counties. Scholarship is renewable, and students must have at least 3.0 GPA.

Sage Book Award
This scholarship is presented to a freshman English major with the highest verbal SAT score and class rank. The award provides a credit for books at the University Bookstore. The amount of this award is $250.

Ada Mae Saxton Music Scholarship
This scholarship is presented to an entering freshman majoring in music. The recipient must be in the top 20 percent of his or her senior high school class, obtain a minimum SAT score of 1100, obtain a minimum score of 80 on the Theory Placement Test and perform an outstanding audition for department admission. This $1000 scholarship is renewable for an additional three years if the recipient continues as a full-time music major at Mansfield University, maintains a 3.0 grade point average, and is recommended by the primary teacher and ensemble director.

A. Hugh Schintzius International Student Scholarship
This scholarship is presented to an international student pursuing their first undergraduate degree and has achieved academic achievement based on several factors. This scholarship is renewable if specific grade point averages are achieved. The amount of the scholarship is $500.

Elinor Schipbanker Scholarship
This scholarship is presented to a freshman art major. At least one $1000 award is available each academic year, non-renewable. General scholarship guidelines are used to select the recipient, with the Scholarship Committee making the selection.

Scholar Recognition Book Scholarship
This scholarship is presented to fulltime, upperclass students who are involved in extracurricular activities. The award provides a credit for books at the University Bookstore and is awarded by the Scholarship Committee.

Mary McInroy Sheffer Scholarship
This scholarship is presented to an education major who has completed registration for student teaching for either the fall or spring of the following year and has a minimum 3.0 GPA. Applicants must submit three letters of reference that speak to the applicant's character and commitment to teaching, and a position paper of no more than 1,000 words on the importance of character in the committed teacher. The award is for $325 and the recipient is selected by the Education and Special Education Scholarship Committee.

Alexander Sidorowicz Scholoarship
A scholarship for a freshman music major in memory of Alex Sidorowicz. Student must have an SAT of 1100 with a minimum score of 80 on the theory placement test. Scholarship is renewable with the selection made by the music department.

Simonson Price Scholarship
The recipient of the scholarship must be an undergraduate education major with at least a 3.2 grade point average. The Education and Special Education Department will recommend a qualified applicant to the Scholarship Committee.

Slabey Scholarship
This scholarship is presented to full-time students who are majoring in computer science or information systems. The recipient must have a minimum cumulative grade point average of 2.70 and have completed six credit hours in computer science. The recipient must maintain good academic and social status. Preference will be given to students who are involved in or show an interest in diversity issues and multicultural affairs and demonstrate financial need. The recipient must contribute to the campus community by participating in student organizations, activities or forums.

Kathryn McInroy Smith and Alice Smith Bailey Scholarship
This scholarship is presented to an entering freshman majoring in music and who was in the top 20 percent of his or her senior high school class. Recipients must have a minimum SAT score of 1100, achieve a minimum score of 80 on the Theory Placement Test, and perform an outstanding audition for department admission. Preference is first given to students who graduated from the Wellsboro Area Public School District. This scholarship is renewable if the recipient continues as a full-time music major, maintains a 3.0 grade point average, and is recommended by the primary teacher and ensemble director based on the recipient's quality of contribution to the ensemble.

Steadman Music Scholarship
A $450 scholarship for an entering music major, scholarship is named in honor of Grace and Margaret Steadman. Student must have an SAT score of 1050 and be in the top 25% of graduating class.

Ruth Redman Stephens Scholarship
This scholarship is presented to a freshman student who graduated from a high school in Sayre, PA, Athens, PA, or Waverly, NY. The recipient should have graduated in the top 10% of his or her class, be a good citizen, and achieved high SAT scores. Community and school activities are considered. This scholarship is renewable for up to 8 semesters provided a 3.5 cumulative grade point average is maintained. This award is for $1500 per academic year. The recipient is selected by the Scholarship Committee. Award given once every four years.

Richard Swartz Scholarship
This scholarship is presented to an upperclass double reed major maintaining at least a 3.0 cumulative grade point average. This is a $150 award.

The Ina G. Tabor Scholarship Fund
This scholarship is present to a student who at the time selected to receive the scholarship has completed 91 credits and has at least 3.0 GPA in the social work major. Preference is given to a student originally from Tioga, Potter, or Bradford counties. The recipient must be considered to be of high moral and ethical standards and have a commitment to practice rural social work. Selection of the $1,000 award is made by the Social Work Department.

Elden and Marjorie Tewksbury Scholarship
This scholarship is presented to an undergraduate student majoring in teacher education who has completed at least 30 semester hours with a minimum 3.0 grade point average. Applicants must submit an essay that addresses the knowledge base metaphor for teacher education at Mansfield University: "Teacher as Reflective Decision Maker." Preference for one of the two scholarships will be given to a resident of the Southern Tier of New York. The award is $1000. The scholarship may be renewable and is awarded by the Education and Special Education Department.

Michele Towers Scholarship
This scholarship is presented to an elementary education or special education major who has completed 30-95 credits with a minimum 3.0 GPA. Recipients are also selected on their orientation to service and commitment to teaching. Students must complete an application and essay about the concept of service. This is a $500 award. The Education and Special Education Department will select the recipient.

University Senate Scholarship
This scholarship is presented to an upperclass student who has excelled academically. The amount of this award is $1500 per academic year. The selection will be made by the Scholarship Committee.

Verizon Scholarship for Computer Science and Technology
This scholarship is presented to an entering freshman who demonstrates high academic achievement and qualifies for financial assistance. This is a $1000 non-renewable award given by Verizon Wireless with selection made by the Scholarship Committee.

Verizon Scholarship
A $1,000 non-renewable award given to an incoming freshman of high academic merit who qualifies for financial assistance. Award given by Verizon Wireless of Pennsylvania.

Gladys Frick Weaver Scholarship
This scholarship is presented to a currently enrolled nursing student who has successfully completed 6 semesters of course work at Mansfield University. The recipient must demonstrate basic nursing knowledge by achieving a minimum of a B grade in his/her nursing courses. The recipient must also demonstrate an interest and competence in bedside nursing, an attitude of caring and compassion and an acceptance of all patients. The recipient should encourage excellence in bedside nursing in the other members of the health care team by example and by direction. The amount of this award is $1500 annually. Applications are forwarded to the nursing faculty for final selection.

Josephine Wolfe Scholarship
A renewable $450 scholarship for entering students from Troy, PA High School. Student must be in the top 20% of their graduating class.

Mildred Packard Wright Scholarship
This scholarship is presented to an incoming freshman once every four years in a mathematics related major. Preference for the scholarship will be given to a student from Troy, Canton, or Bradford County, PA. The amount of this award is $1000 per academic year, with selection made by the Scholarship Committee.

Dr. Edwin Zdzinski Scholarship
This scholarship is presented to a full-time music student with junior status in the Music Education curriculum and at the time selected to receive the award in the senior year, must have a 3.0 GPA in music and have recommendations from instrumental conducting faculty. The award is $250 made by the Music Department Scholarship Committee.

Awards

American Chemical Society, Corning Section Student Award
Recognition on a plaque located in Grant Science Center to a graduating senior of high academic achievement.

American Institute of Chemists Student Award
A one-year associate membership in American Institute of Chemists and recognition on a plaque in Grant Science Center to a graduating senior of high academic achievement.

Biology Outstanding Major Award
The Commonwealth of Pennsylvania University Biologists annually recognize the outstanding biology major from Mansfield University at its annual meeting held on the campus of one of the 14 state system universities. The award includes a trip to the annual meeting, the presentation of the personal certification at the meeting banquet, and a certificate for display in Grant Science Center.

Broadcasting Award
One award from the New York Academy of Television Arts and Sciences.

Henry Dyck Book Award
Awarded annually to a student who demonstrates the highest academic achievement in English 226, The History of the English Languages.

Andrew Frank Award
Andrew Frank was a Mansfield Education major who maintained his morale and courage throughout his college years despite a debilitating illness. This $50 award is presented by his family and friends to the graduating education student who, in the judgment of the faculty, has overcome adversity to achieve a college education.

Rhino Award
One award given for contributions to the Theatre.

Tiadaghton Audubon Society Memorial Environmental Award
A competitive cash grant for one or more promising biology students to conduct independent research in disciplines related to the environment or organisms living in natural ecosystems. The award is made in memory of noted environmentalist Forrest Watkins, and former Mansfield Biology professor, Dr. Charles Weed.

Sam Dee Thomas Outstanding Painting Award
Given for oil painting or waterbase media.

V. UNIVERSITY POLICIES

The University reserves the right to make changes in curricula, degree requirements, course offerings, and all academic regulations at any time when, in the judgement of the faculty, the president, and council of trustees, such changes are in the best interest of the students and the university. University policy procedures can be found in The Password for upperclassmen or The Student Planner for freshmen.

GRADUATION REQUIREMENTS

It is your responsibility to know the university requirements for your major and for graduation.

To graduate from Mansfield University with an **associate degree,** you must meet the following requirements.

(1) Earn the minimum number of credit hours for the particular major, plus any required preparatory (090) courses. Preparatory courses completed increase the total number of credit hours required for graduation.
(2) Earn a minimum 2.0 cumulative quality point average (QPA) in all work attempted and in the major.
(3) Complete requirements for general education and the major.
(4) Complete the Writing Across the Curriculum, Information Literacy and Global Awareness programs.

To graduate from Mansfield University with a **baccalaureate degree,** you must meet the following requirements.

(1) Earn the minimum number of credit hours for the particular major, plus any required preparatory (090) courses. Preparatory (090) courses completed increase the total number of credit hours required for graduation.
(2) Earn a minimum 2.0 cumulative quality point average (QPA) in all work attempted and in the major.
(3) Complete requirements for general education and for the major.
(4) Complete 40% of the credits required for a degree at the 260 course level or higher.
(5) Complete the Writing Across the Curriculum program.
(6) Complete a second year language proficiency or minor for a B.A. degree.

To graduate from Mansfield University with a recommendation for **teacher certification** you must meet the following requirements.

(1) Earn the state mandated minimum QPA for your cohort group (determined when first "gates" requirements are met and not sooner than 48 credits).
(2) Complete a teacher preparation certificate program approved by the Pennsylvania Department of Education.
(3) Complete all Mansfield University requirements for a baccalaureate degree.
(4) Pass all state mandated Praxis examinations for your area(s) of teaching certification.
(5) Present evidence that you have met state mandated clearance requirements as specified under Act 34 and Act 151.

You may earn a university degree with less than the state mandated minimum QPA, lacking the required clearances, or without having passed all Praxis examinations, but the University will not recommend you to the Pennsylvania Department of Education for certification.

No student may be granted an associate degree or a baccalaureate degree from the University without earning at Mansfield University at least 25% of the required total credits for the degree. Exceptions may be made with approval from the Office of the Provost.

Transfer credit may be awarded for up to 50% of the major requirements including major related electives. If the remaining credits do not meet Mansfield University guidelines for general education, they are applied as free electives.

You will receive a "Graduation Outlook" upon completion of 90 credit hours. The "Graduation Outlook" notes courses and/or requirements still necessary to be completed for graduation including any deficiency in the cumulative quality point average (QPA) in all work attempted and in the major. A final outlook showing deficiencies will be sent after the end of the Add/Drop period in the semester in which the student intends to graduate.

PREPARATORY (090) COURSES

Entering students are evaluated in mathematics and writing to assure a minimal level of competency. In mathematics your previous preparation is assessed. A writing placement examination is administered to all entering students, and placement is made in ENG 090 or ENG 1112W W on the basis of your performance on that essay.

If 090 courses are necessary, the minimum number of credits required for graduation increases. Any required 090 course must be taken during the first 57 credit hours attempted.

ACT 48

ACT 48 of 1999 requires persons holding Pennsylvania professional educator certification to complete continuing education requirements every five years to maintain active certification. Teachers wishing to use credit course work at Mansfield University to help meet this requirement must notify the Center for Lifelong Learning (CLL). The Center will report credit courses satisfactorily completed to the Pennsylvania Department of Education. Teachers are responsible for selecting courses that pertain to their areas of certification or teaching assignments.

Contact Karen Norton at the CLL, (570) 662-4850, (800) 661-3640, or visit our website at cll.mansfield.edu

COURSE LOAD

A normal academic course load is 12 to 18 credit hours. To schedule more than 18 credit hours in a semester, you must have a 3.0 cumulative point average (QPA). If you do not have a 3.0 QPA, you may submit a petition to the Provost/Vice President for Academic Affairs for permission. Petitions are available in the Academic Records Office.

ADD/DROP

You may ADD a course during the first seven working days of a semester and DROP a course during the first six working days of a semester. Add/Drop cards are available in the Academic Records Office. The class instructor must sign all add or drop cards. If you have earned fewer than 60 credits you must also have add or drop cards signed by your advisor.

ACADEMIC INTEGRITY

Students are expected to do their own academic work. Dishonesty in academic work, including cheating, academic misconduct, fabrication, or plagiarism is unacceptable. Faculty are expected to instruct students in ways of avoiding these forms of academic dishonesty. Faculty are also responsible for assessing and reporting all charges of academic dishonesty to the Office of the Provost. The student handbook, The Password

for upperclassmen, or The Student Planner for freshmen, outlines the procedures faculty will use to initiate disciplinary action in cases of academic dishonesty.

Faculty are responsible for informing students of course evaluation criteria, for adherence to the stated criteria, and for determining grades in a fair and equitable manner. If a student charges that a faculty member has discharged professional duties in an improper, arbitrary, discriminatory, or otherwise unjustified manner, the complaint will be considered by the procedures outlined in The Password for upperclassmen or The Student Planner for freshmen.

GRADING

Professors provide students a written syllabus prior to the end of the first week of class which includes the criteria for academic evaluation. Mansfield University uses a 4-point grading scale, as shown below, to evaluate academic performance.

GRADES	INTERPRETATION	QUALITY POINTS
A	Excellent	4.0
A-		3.7
B+		3.3
B	Above Average	3.0
B-		2.7
C+		2.3
C	Good Standing	2.0
C-		1.7
D+		1.3
D	Minimally Passing	1.0
D-		0.7
F	Failure	0.0

The following designations may be used in addition to the grades shown above:

AU -	Audit
EX -	Credit by Examination (D- grade or better)
I -	Incomplete
P/F -	Pass/Fail (D- grade or better)
S -	Satisfactory (D- grade or better)
U -	Unsatisfactory
W -	Withdrawal from a course after the drop period

The cumulative quality point average (QPA) is determined by dividing the total number of quality points earned by the total number of credit hours of work attempted. The cumulative QPA is the index by which a student's academic standing is judged.

Mid-Semester Grades

Students enrolled in 090, 100-level, and 200-level courses receive mid-semester grades on a scale of A through F to enable them to recognize their academic status in each of these courses at mid-semester. Mid-semester grades in 300-level and 400-level courses are provided at the discretion of the course instructor.

INCOMPLETE (I)

An "I" (Incomplete) grade is used to denote unfinished work because of serious mitigating circumstances beyond the student's control. It is a privilege granted because of circumstances, not a right to be expected by the student.

The I is submitted by professors at their discretion on the grade report form at the end of the semester. The professor and the student will identify the specific requirements to be satisfied in order to convert the I to a letter grade. The student is responsible for the removal of an I grade within the first three weeks of the subsequent semester except in cases where serious circumstances prevail and a request for an extension is made by the faculty member to the Academic Records Office. If the I grade is not cleared within the allotted time period, a final grade of F is recorded.

PASS/FAIL (P or F)

You may take a total of eight courses on a pass/fail basis; however, no more than one course each semester may be taken under the pass/fail option. Pass credits are not reflected in the student's QPA; however, a passing (P) grade is counted as credit hours earned. Students may elect the pass/fail option during the first seven working days of the semester. They may neither change the pass/fail option to a letter grade nor select the pass/fail option after the first seven working days of the semester. A passing grade is D or better. Three failures under this option will constitute a loss of the option. Pass/Fail application forms are available in the Academic Records Office. The following restrictions apply:

1. 100 or 200 level courses may not be taken pass/fail to fulfill any General Education requirements.
2. Any 100 or 200 level course taken pass/fail will count only as a free elective.
3. Courses required to complete a major or an academic minor may be included in the pass/fail option at the discretion of that department, require the chairperson's signature, and may not be counted for General Education credit.

WITHDRAW FROM A COURSE (W)

After the drop period, you may withdraw from a course until 4 p.m. the Friday of the ninth week of classes. You need to complete a course withdrawal form and have it signed by the course instructor. If you have earned fewer than 60 credits, you must also have the withdrawal card signed by your Advisor. Once you have the required signatures, submit the form to the Records Office in South Hall. A W will be recorded in the permanent record and will not be calculated in the quality point average (QPA). A student who withdraws from all courses is automatically withdrawn from the University.

WITHDRAWAL FROM THE UNIVERSITY

Students who wish to withdraw from the university may do so by completing a "Withdrawal from Mansfield University Form" which is available in the Academic Records Office in South Hall or from the Office of the Provost in North Hall 510. Upon receipt of the form, the administration will promptly notify all appropriate offices, including the student's advisor and course instructors. On-campus students are responsible for checking out of their residence hall by contacting a staff member.

Students who leave the university without properly notifying the university for other than extenuating circumstances (as documented by a physician, counselor, or other appropriate individual) will receive a grade for each course based on the total semester.

All students who have withdrawn and who desire admission to the university must file an application for readmission.

Students who apply for readmission within one calendar year of the date of withdrawal will have the application fee waived. Except for extenuating circumstances (e.g. medical reasons), students are not guaranteed readmission.

Completion of a 'Withdrawal from the University' must be done by the last regular class day of the semester.

Withdrawal from the University is likely to have serious financial ramifications. Students are encouraged to discuss such action with a financial aid officer if they are receiving financial aid.

AUDIT (AU)

Students interested in auditing a course (attending class, but receiving no grade or credits) must submit the Audit Form before the end of the Add Period (first seven working days of the semester). The Audit Form is available in the Academic Records Office, South Hall. The class instructor must grant permission for any student to audit a course. Not all courses are available for audit. Courses with a high degree of specialized equipment, and one-on-one faculty-student interaction (such as science labs) are generally not open to audits. For fee see Expenses section III in this catalog.

REPEATING A COURSE

When you repeat a course the last grade received is used in computing your cumulative quality point average (QPA). If you fail a course, you may not repeat it on a pass/fail or credit-by-exam basis.

GRADE CHANGE

If an instructor makes an error in the final grade given to a student, a grade change request must be made within the first three weeks of the subsequent semester. Grade changes are not allowed after that time unless a request for an extension is made by the faculty member to the Office of the Provost.

DUE PROCESS (Appealing a Grade)

If you wish to appeal a grade, refer to the procedures outlined in The Password for upper classmen, or for new students, the Student Planner.

TRANSCRIPTS

Official transcripts of courses taken at Mansfield University are prepared by the Academic Records Office and issued according to the following policies:

a. Student's records are confidential. Transcripts, therefore, are issued only at the written request of the student. Requests by telephone are not accepted.
b. No transcript is issued to or for a student who is indebted to the university until the debt has been paid in full.
c. Official transcripts of credits(s) earned at other institutions that have been presented for admission and evaluation become part of your permanent record in the Academic Records Office and cannot be reissued or copied for distribution. Transcripts from other institutions must be obtained directly from those institutions.
d. Official transcripts issued directly to you will only be released in a signed, sealed, embossed envelope. The envelope will bear the statement that if opened the transcript should be considered unofficial and the integrity of the document is not guaranteed by Mansfield University.
e. Unofficial transcripts (student copy) contain the same information as an official, but do not bear the authorized signature or seal of the university.

MINIMUM ACADEMIC STANDARDS

All degree-seeking students must meet the minimum academic standards of the institution. The minimum academic requirements for continuation at Mansfield are:

0-15	credit hours attempted	– 1.20 QPA
16-30	credit hours attempted	– 1.40 QPA
31-45	credit hours attempted	– 1.60 QPA
46-60	credit hours attempted	– 1.80 QPA
61+	credit hours attempted	– 2.00 QPA

Credit hours attempted include transferred credit hours.

ACADEMIC PROBATION

A matriculated student whose cumulative quality point average (QPA) is between the minimum academic standard and 2.00 at the end of a semester is placed on academic probation until the QPA is 2.00 or above.

Probationary status does not mean that a student is dismissed from the University. It means that although the minimum academic requirements have been met, the QPA is not acceptable for graduation. A student on probation receives a letter from the university about probationary status and subsequent assignment to the Academic Advising Center in South Hall.

With the assistance of an advisor, students develop strategies for improvement and take advantage of available academic support services.

ACADEMIC DISMISSAL

A degree seeking student who earns a cumulative quality point average (QPA) that is below the required minimum academic QPA at the end of any semester will be dismissed from Mansfield University. The minimum QPA varies depending upon how many credits you have attempted at Mansfield University and how many credits the university has accepted in transfer. (See "Minimum Academic Standards" above.) If you are academically dismissed, you may be reinstated to the university by appealing to and appearing before the Academic Standards Review Board prior to the beginning of the next semester, or you may apply to the Admissions Office for re-admission following an interval of one year. Students who are reinstated by the A.S.R.B. would be given two semesters to acquire the necessary Q.P.A. for continued matriculation. This is contingent upon earning a minimum 2.0 semester Q.P.A. for the semester immediately following their 1st dismissal. A student who has attempted 45 or fewer credits and is academically dismissed and is then subsequently reinstated by the Academic Standards Review Board will be assigned to the University Learning Center to participate in the Academic Skills Development Program. The purpose is to help the student improve his / her overall academic performance. Failure to participate in the Academic Skills Development Program will be considered at any subsequent dismissal hearing. Academic dismissal may impact your eligibility for financial aid. A second or subsequent dismissal terminates your association with Mansfield University.

CLASS STANDING

Class standing is determined by the total number of semester hours earned including credits accepted in transfer from other accredited colleges.

Freshman	0-30	semester hours earned
Sophomore	31-60	semester hours earned
Junior	61-90	semester hours earned
Senior	91+	semester hours earned

DEAN'S LIST

The Dean's List is issued at the close of each semester. It includes only undergraduate matriculated students. You must earn at least 12 credits for which a letter grade is received (P/F and S/U grades are excluded). The semester quality point average (QPA) must be between 3.50 and 3.99 inclusive.

PRESIDENT'S LIST

The President's List is also issued at the close of each semester. It includes students who fulfill the above requirements and attain a semester quality point average (QPA) of 4.00.

INTENT TO GRADUATE

Candidates for the Associate Degree or Bachelor's Degree must complete the Intent to Graduate form available in the Academic Records Office, South Hall.

Students are encouraged to participate in the graduation exercise which recognizes and honors their academic accomplishments.

COMMENCEMENT HONORS

Superior scholastic achievement is recognized at Commencement. Bachelor's degree students must have completed at least 45 credit hours at Mansfield University prior to their final semester to receive honors recognition at Commencement. Honors designations are based on cumulative quality point average (QPA) as indicated:

Cum Laude	3.35 to 3.64
Magna Cum Laude	3.65 to 3.94
Summa Cum Laude	3.95 to 4.00

Students who meet the honors requirements upon completion of their final semester with a minimum of 60 credit hours at Mansfield University, will have such recognition noted on their permanent record.

Associate degree students must have completed at least 30 credit hours at Mansfield University prior to their final semester to receive honors recognition at commencement. A cumulative QPA of 3.5 or higher is required for this recognition.

MAINTENANCE OF MATRICULATION

Students who are off campus doing approved course work consistent with program requirements and thereby meet degree or program requirements in effect at the time of initial matriculation are considered to be in a continuing matriculated status.

READMIT POLICY

Matriculated students who have not been in regular attendance during the previous semester must apply for readmission to the university. This does not apply to non-matriculated students.

Readmit applications must be submitted, along with the appropriate fee, by March 1 for the fall semester and November 1 for the spring semester. A statement should accompany the application about activities, including such information as employment, college course work completed, or military service. The application fee may be waived for students who provide a letter to the Office of Admissions citing reason(s) for withdrawal and stating expected return entry date.

Students readmitted following a break of more than one semester fall under all university policies in effect at the time of readmission. Before students are readmitted they must clear all outstanding university-related debts.

CERTIFICATION

Teacher Education Certification

The Teacher Education Unit is responsible for all teacher certification programs at Mansfield University regardless of the department that houses the program. The Unit is nationally accredited by the National Council for the Accreditation of Teacher Education (NCATE) at both the undergraduate and graduate level. The Unit prepares teachers who have the knowledge, skill, and dispositions to meet the demands of public education in the twenty-first century.

The Teacher Education Unit's guiding principle is that of "Teacher as Reflective Decision Maker." The Unit has adopted Charlotte Danielson's Framework for Teaching as the conceptual framework for guiding students in their development as reflective decision makers. This framework centers on four domains or areas of teacher responsibility: Planning and Preparation; Classroom Environment; Instruction; and Professional Responsibility.

Programs in the unit include:

Program	Home Department	Type of Certification
Art Education BSE	Art	K-12 Art Education
Music Education BSE	Music	K-12 Music Education
Elementary Education BSE	Education and Special Education	K-6 Elementary Education
Early Childhood additional certification	Education and Special Education	N-3 Early Childhood (must hold Elementary certification)
Special Education BSE	Education and Special Education	K-12 Mentally/Physically Handicap
Dual Program Elementary and Special Education	Education and Special Education	K-6 Elementary Education and K-12 Mentally/Physically Handicap
Social Studies—History BSE	History and Political Science	7-12 Citizenship
English BSE	Languages and Literature	7-12 English Education
Spanish BSE	Languages and Literature	K-12 Spanish Education
French BSE	Languages and Literature	K-12 French Education
German BSE	Languages and Literature	K-12 German Education
Biology BSE	Biology	7-12 Biology Education
Chemistry BSE	Chemistry and Physics	7-12 Chemistry Education
Physics BSE	Chemistry and Physics	7-12 Physics Education
Earth and Space Science BSE	Geography and Geology	7-12 Earth and Space Science Education
Mathematics BSE	Mathematics	7-12 Mathematics Education

Advancing in the Teacher Certification Program

Students entering the university select an education program and are admitted as a major in that program. For example a freshman or transfer student might choose to be an Biology Education major in the Biology Department. Once the student has chosen a major, then he or she progresses through the gates in the program. Education majors are evaluated at three stages in their program. Mansfield evaluates student preparation based on national standards and Pennsylvania Act 354 requirements. The student must complete all three gates to be recommended for certification. Students will receive written confirmation that they have met Gates One and Two. Gate One must be completed before taking upper level (courses numbered 3000 and above) education courses. Gate Two must be completed before beginning student teaching. Gate Three must be completed before recommendation for certification. Each department may have

additional requirements specific to their specific Education program. See the individual program descriptions in this catalog or contact you education program advisor for more information.

Gate One: Students completing the following requirements after August 22, 2003 will be designated a Teacher Education Certification Candidate (TECC). Students must be a TECC in order to register for upper level courses number 260 and above. To become a TECC, the student must:

- complete a minimum of 48 hours of course work which may include transfer hours;
- have a Quality Point Average (QPA) of 3.0 or higher);
- complete two college level mathematics courses; and one English Literature course and one English Composition before becoming a TECC (Math 0090 and English 0090 or developmental or remedial transfer courses do not meet this requirement);
- pass the Introduction to Education (ED 1102) course;
- pass the Praxis I certification test (Students transferring into Mansfield University from another institution and who have met all other Gate One requirements may be designated a probationary TECC. They will have one semester after admission to Mansfield University to pass the Praxis I);
- complete criminal background and child abuse clearances.
- See program description or advisor for additional program specific requirements.

Gate Two: Students wishing to be admitted to Student Teaching must complete the following requirements:

- have a Quality Point Average (QPA) of 3.0 or higher for those students admitted to TECC after August 22, 2003;
- complete all education courses except student teaching and professional seminar; students wishing to take non-education courses after student teaching must petition the appropriate department chair and the Director of Teacher Education.
- complete criminal background and child abuse clearances again.
- See program description or advisor for additional program specific requirements.

Gate Three: Students who wish Mansfield to recommend them for Teacher Certification must complete the following requirements:

- pass the Praxis II certification tests;
- complete the appropriate BSE degree with a QPA of 3.0 or higher for those students admitted to TECC after August 22, 2003;
- apply for Pennsylvania Teacher Certification, repeating criminal background and child abuse clearances if they have expired.

For information and registration for Praxis I and Praxis II exams, contact the Office of Career Development at 570-662-4133. For more information on specific program requirements, see the individual program descriptions in this catalog or contact your education program advisor. For more information about becoming a TECC, obtaining clearances and participating in Field Experiences, contact your education program advisor or the Enrollment Services Office at 570-662-4873.

Applicants wanting endorsement for teacher certification (initial or added) by Mansfield University must contact the Field Experience Office, Retan Center and complete or submit the following:

1. Personal interview with the Certification Officer, if requested.
2. Application completed and returned with a $25 fee. Application forms are available in the Field Experience Office, Retan Center.

Official transcripts of all college work completed must be sent directly to the Field Experience Officer at Mansfield University.

Federal Title II

In October 1998, the U.S. Congress enacted Title II of the Higher Education Act (HEA). It includes requirements for institutions and states to report on teacher preparation. The purpose of Title II reporting is to provide the public information on the quality of teacher preparation. The U.S. Department of Education Title II report to congress for 2002 is based on students who completed their certification programs or degrees between September 1, 2000 and August 31, 2001.

Pennsylvania requires two series of certification tests. Praxis I consists of Reading, Writing, Mathematics, and Listening tests. Praxis II consists of a Principles of Teaching Learning test for either Elementary school teachers or Secondary school teachers, plus one or two content and specialty tests depending on the teaching area. Students in the Mansfield University teacher education program must complete from 5 to 8 certification tests depending on their teaching area or areas. Students often complete certification in more than one area.

Title II data is compiled on students who have successfully completed teacher preparation programs and are eligible for certification. In 2000-2001, a total of 106 people completed teacher certification programs at Mansfield University and 134 of those took one or more certification tests. These 95 people took a total of 571 tests. 72 passed all the tests they attempted for an institutional summary pass rate of 76% compared to a statewide summary pass rate of 84%, ranking Mansfield University in the third quartile statewide. Federal reporting guidelines mandate providing aggregate pass rates in a number of categories. Those aggregate categories and pass rates are:

- Aggregate Basic Skills: 95 people took the tests in this category, with 11 not passing all the tests they attempted for an aggregate institutional pass rate of 88% compared to a state wide rate of 93%.
- Aggregate Professional Knowledge: 92 people took the tests in this category with 11 not passing all the tests they attempted for an aggregate institutional pass rate of 88% compared to a state wide pass rate of 92%,
- Aggregate Academic Content Areas (Math, English, Biology, etc.): 85 people took the tests in this category with 11 not passing all tests they attempted for an aggregate institutional pass rate of 87% compared to a state pass rate of 89%.
- Aggregate Teaching Special Populations (Special Education): 14 people took the tests in this category with 5 not passing all tests they attempted for an aggregate institutional pass rate of 64% compared to a state wide pass rate of 89%

Additional information and the complete Title II report may be obtained from the Enrollment Services Office, 136 Alumni Hall, Mansfield University, Mansfield PA 16933.

SECOND BACCALAUREATE DEGREE

A student who possesses a baccalaureate degree may earn a second bachelor's degree upon completion of the following requirements: 1) a minimum of 32 credit hours at Mansfield following the first degree (internships, observation/participation, and student teaching credit hours are not counted in the required minimum), 2) all requirements for the major in which the second degree is to be earned, 3) General Education is considered closed on the first degree except any specific General Education requirements for the second degree if not already completed, and 4) earn at least a 2.0 cumulative quality point average (QPA) in all work attempted and in the major. The QPA of the original degree will be "sealed". There will be a new and totally distinct QPA for the new degree.

ADDING MAJOR(S) TO A COMPLETED BACCALAUREATE DEGREE

A graduate of Mansfield University may readmit to add new major(s) to a prior degree. You must be accepted by the department offering the program of study and fulfill all the requirements for the new major. Any courses required in the new major that were completed prior to returning to Mansfield will be waived. General Education will be considered satisfied, except specific requirements for the second major, if they have not already been completed.

The QPA of the original degree will be "sealed". There will be a new and totally distinct QPA for the new major(s). You must maintain a minimum QPA of 2.0 in work taken after the baccalaureate degree to remain at Mansfield. There are no minimum number of hours which must be completed after receipt of the degree in order to add a new major.

Upon completion of all requirements, a notation will be made on the permanent record indicating the new major(s) and the date completed.

DUAL/MULTIPLE MAJORS

Students may complete multiple majors within the same degree; that is, a B.A. major may be added to a B.A. degree, a B.S. to a B.S., etc. The first major selected is considered primary. The one exception to this is the Liberal Studies major. A student may not declare Liberal Studies as a second major. Students may also complete two majors that do not lead to the same degree (B.A., B.S., B.M., etc.). To complete two majors leading to different degrees, the student declares the first major and the second major. The first major determines the specific degree awarded, and successful completion of the second major is noted on the student's transcript ("Successfully completed requirements of the academic major in _____." Completion of two different majors does not result in the award of two degrees.

ACADEMIC MAJOR/MINOR REQUIREMENTS

The requirements for your major and/or minor appear on the Degree Audit, which is maintained in the Academic Record's Office. You must complete the major/minor requirements that exist at the time you are admitted to the university. Should major/minor requirements change, it affects only new students and currently enrolled students who may choose to satisfy the new program requirements. Students readmitted following a break of more than one semester fall under all university policies in effect at the time of readmission.

ACADEMIC MINOR

A minor consists of no less than 15 and no more than 24 related credit hours. Students must attain a minimum 2.0 cumulative quality point average (QPA) in all courses required. The Bachelor of Arts degree candidate must choose between a minor or second year foreign language proficiency. To earn a Mansfield University minor, students must complete at least 50% of the required minor course work from Mansfield University. Though not a requirement for other degrees, a minor can be used to enhance your academic experience and will appear on your permanent record. Minor forms are available in the Academic Records Office, South Hall.

CHANGE OF MAJOR/MINOR

Change of major or minor forms are available in the Academic Records Office, South Hall.

UNDECLARED MAJORS

Entering students who are not ready to choose a major may be accepted as Undeclared. An advisor assists the student in choosing courses to fulfill General Education requirements and advise them about introductory courses as a means of selecting a suitable major. An undeclared student should choose a major after the second semester freshman year; however, all students must declare a major by the time they have earned 64 credit hours.

PETITION

Program Variance: under special circumstances, curriculum requirements may be modified. A department chairperson may substitute or waive major course requirements by informing the Academic Records Office in writing of such requested program change. Students may petition the Provost for other program variances.

Waiver of University Policies or Regulations: when any rule or regulation of the university causes an unfair hardship, you may petition the Provost for an exception. You should contact your advisor for assistance in preparation of a petition. Petitions are available in the Academic Records Office, South Hall.

ALTERNATIVES TO TRADITIONAL STUDY EXPERIENCES

Advanced Placement (AP)

We accept high school courses taken prior to admission to the university under the national Advanced Placement (AP) program. A minimum score of three on the qualifying examinations is required for award of credit. No more than 12 credits earned by such examinations may be applied toward graduation requirements.

College Level Examination Program (CLEP)

We participate in the national College Level Examination Program (CLEP). Mansfield University grants credit for CLEP SUBJECT examinations, but does not grant credit for the CLEP GENERAL examination. Subject examinations are available in the areas of business, composition, education, foreign languages, humanities, mathematics, science, and social science.

CLEP is a way to earn college credits for what you have already learned and may shorten your college experience. Information regarding CLEP examinations is available from the Admissions Office.

Credit by Exam (EX)

Matriculated students who feel they have already mastered the material in a Mansfield course may request permission to challenge the course by examination. Students may elect this option during the first seven working days of the semester. This does not include courses in the areas of independent study, ensemble or other group participation courses, student teaching or pre-professional experience, seminar or selected topics, and laboratory experience unless special permission is provided by the department offering the course and the Office of the Provost.

Students may not challenge a course in which they have demonstrated competency by passing a more advanced course nor a course which has been waived because of demonstrated competency or advanced placement. The examination must be completed and the contract returned to the Office of the Provost within the first four weeks of the semester. Applications are available in the Academic Records Office, South Hall.

Graduate Courses

As an undergraduate student at Mansfield, you may enroll in a graduate course (500 level) if you are within 18 semester hours of having satisfied the requirements for a bachelor's degree (as certified by the Academic Records Office).

Graduate courses may be applied toward the undergraduate degree requirements upon completion of the "Request for Permission to Enroll in Graduate Courses" request. The request form is available in the Academic Records Office and satisfactory completion of such course(s).

Graduate courses may count for graduate credit upon conferral of the bachelor's degree if these credits raise your total beyond the number required for the bachelor's degree. This does not imply automatic admission into the Graduate program.

Military Service Credit

Veterans having completed a minimum of basic training with honorable service in the United States Service Branches (DD 214) may apply for three credits in HPE 100 (Health) and/or HPE 101-199 (Physical Education). In addition, credit may be awarded for service training programs based on an official military transcript and recommendations in the American Council on Education Guide.

International Exchanges and Study Abroad

A world of opportunity exists for Mansfield students who decide to participate in international exchange or study abroad programs. We offer direct exchange programs with Charles Sturt University in Australia, and Volgograd State University in Russia. Other Mansfield study abroad programs have been arranged in Canada, Costa Rica, England and with Friedrick-Schiller-University in Jena, Germany. You may also participate as Visiting Students in other PA State System Universities' international programs or in approved programs offered by other US and foreign institutions of higher education.

Contact the Office of the Provost or Study Abroad advisor for information about available programs and an application. You must provide evidence of a cumulative QPA of 2.5 and submit two references from professors or administrators. Departmental advisors and the Study Abroad advisor will help you select courses to take while abroad which will meet general education or major program requirements. Students who study abroad may opt to receive Pass or Fail grades (P/F) for up to 15 credits of course work in any one semester.

Study abroad programs are available in a variety of cost ranges. Financial aid and study abroad scholarships are available for qualified students.

Visiting Students

Students enrolled full-time at a SSHE university may elect to participate in The Board of Governors' Visiting Student program offered at sister institutions for a limited period of time. Information regarding the Visiting Student program is available from the Office of the Provost.

Independent Study and Individualized Instruction

Independent Study (IS) is available in each curricular field. The appropriate curricular prefix precedes the course number 497, and the credit hours vary from one to three. Independent Study may be repeated for more than three credit hours total, but each Independent Study project may be for no more than three credit hours.

Independent Study is an activity initiated by you to increase your already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field.

To request approval for an Independent Study, prepare a contract (available at the Academic Records Office) which then must be completed and approved by the faculty director, department chairperson and Office of the Provost. A request for Independent Study must be completed prior to the start of the semester or summer session for which the Independent Study is sought.

Individualized Instruction (II) is available on a restricted basis. Ordinarily permission to take a course by Individualized Instruction is reserved for students who are close to graduation and who have not been able to meet a degree requirement either because the course has not been available or because of some other mitigating circumstance.

A request for a course by Individualized Instruction (available at the Academic Records Office), must be completed and approved by the faculty director, department chairperson, and the Office of the Provost.

HUMAN SUBJECT RESEARCH POLICY

Research projects undertaken by Mansfield University students, staff, or faculty members must be approved prior to involvement of human subjects and the initiation of the research project. The review process is intended for the protection of the human subjects and shall be the sole object of the review. The Mansfield University Institutional Review Board (IRB) is the final authority in determining approvals of human subjects research. To apply for a request for review of research, contact your department chairperson who will give you a copy of the guidelines, application form, and a sample informed consent form. You must submit two copies of the Request for Review of Research form and one copy of the Informed Consent form to your department chair. Depending on the nature of the research, and the potential risks to subjects, the department will undertake a departmental review of the application, or they will forward it to the IRB Chairperson for board review. Copies of the IRB guidelines and forms are also available at the university web site: http://www.mnsfld.edu/~grantsde or by contacting Dr. Francis Craig, Chairperson of the IRB, South Hall. Persons undertaking human subjects research should plan to submit their applications at least 3-4 weeks prior to the proposed research project start.

SEXUAL HARASSMENT POLICY

Harassment on the basis of sex is a violation of Title VII of the U.S. Civil Rights Act, Title IX of the Education Amendments of 1972, and of the Pennsylvania Human Relations Act. Because the University is committed to providing an environment where each person can learn and work to his or her fullest capacity, the university does not tolerate sexual harassment.

Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature. Sexual harassment occurs when:

1) submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment, or a student's academic status or treatment.
2) submission to or rejection of such conduct by an individual is used as the basis for academic or employment decisions affecting such individual; or
3) such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working or academic environment.

Individuals who believe themselves to be the victims of sexual harassment, or who have questions about the university's policy on this matter should contact the Affirmative Action Office, Pinecrest 113, or call (570) 662-4051.

Existing affirmative action guidelines are used in processing complaints.

HANDICAPPED POLICY

Section 504 of the Rehabilitation Act of 1973 provides that Any otherwise qualified handicapped individual shall, solely by reason of his/her handicap, be excluded from the participation in, be denied the benefits of, or be subject to discrimination under any program or activity receiving federal financial assistance. Section 504 prohibits discrimination against handicapped individuals in recruitment, testing, admissions, or after being admitted to a college/university. Mansfield University is committed to making the necessary adjustments in order that persons who are mentally and/or physically challenged are able to fulfill academic requirements and to ensure that they are not excluded from employment or services because of their disabling condition. Inquiries should be directed to the Affirmative Action Office, Alumni Hall 112, or call (570) 662-4051.

ACADEMIC AND HUMAN DEVELOPMENT

The University provides developmental services to students for the successful pursuit of their academic program and personal development.

These services include Academic Advising, Access Programs, Athletic Mentoring, Counseling, Learning Center, Minority Mentoring, Services for Students with Disabilities, and Writing Center.

Academic Advising

The Academic Advising Center assists students in a variety of ways related to their academic work. The Center is responsible for the advising of probationary, readmitted, and reinstated students. In addition, the Academic Opportunity, Athletic Mentoring, and Minority Mentoring programs are assigned to the Center, as well as the Academic Standards Review Board (ASRB).

All students with a QPA below 2.0 are required to make regularly scheduled appointments with their advisor throughout the semester. An advisor can help students make plans and take specific action to improve their academic progress. The goal of the Advising Center is to serve as a resource area and to help students adjust to college.

Access Programs

There are two academic support programs assisting individuals who have potential to be successful college students, but do not qualify for regular admission to the University: the Act 101 and the Academic Opportunity Program (AOP), located in South Hall.

The Act 101 program supports Pennsylvania residents whose cultural, economic, or educational backgrounds might impair their ability to pursue higher educational opportunities successfully. The Academic Opportunity Program (AOP) is designed for students who did not do well enough in high school to qualify for regular admission to the University.

Both programs help to develop their academic skills. Students accepted through these special programs become regular matriculated students with the same opportunities and responsibilities as other students in accord with university policies and procedures.

Athletic Mentoring

The Athletic Mentoring program helps student athletes improve their academic performance and maintain their academic eligibility for participation in intercollegiate athletics.

Although athletes on academic probation represent the primary service population, all student athletes are invited to use the support services in this program. These services include academic advising, advice on course scheduling, mentoring, study groups, tracking and monitoring academic performance, and making referrals to other academic support services such as tutoring, counseling, testing, and career advising.

The program also maintains relations with other academic support services to help deliver and coordinate services to athletes and with coaches to report and monitor the academic progress of student athletes.

Counseling Center

The University Counseling Center provides free counseling services to all university students and staff. Our primary purpose is to help people grow in a positive and productive direction. We will assist you in understanding yourself, your feelings and

emotions, your personal problem areas, and your educational concerns. We will develop a strategy with you to assist in reaching your goals and in helping you to live more effectively.

Learning Center

The Learning Center offers tutorial assistance and professional consultation for students who wish to improve basic reading, writing, computational and/or computer skills or extend their knowledge in academic content areas. The center is staffed by professionals, paraprofessionals, and peer tutors. It includes a computer lab and small software library. A peer tutorial component is also housed within the center to assist individuals or small groups in most subject areas.

SUPPORT

Minority Mentoring

SUPPORT monitors the academic progress of racially/ethnically underrepresented students at Mansfield University.

SUPPORT services include academic workshops, developmental academic advising, to include group and individual sessions, and appropriate referrals to other supportive services, e.g. counseling, tutoring, career services, and faculty office hours. Peer, faculty, and alumni mentors are also available, as a major component of the program. SUPPORT also offers an interactive, informational web site and a Minority Alumni Network.

SUPPORT is designed to increase the likelihood for minority students to enjoy academic success, healthy personal growth and to help each student successfully navigate the academic systems that drive Mansfield University.

Services for Students with Disabilities

The Office of Students with Disabilities (SSD) is the main advocate for students with disabilities who request academic support services at the University. It is our goal to assist you in gaining appropriate and reasonable accommodations that will aid you in pursuing a meaningful college experience.

After submitting pertinent documentation, we will attempt to address all reasonable accommodations appropriate to your needs. Current accommodations include, but are not limited to, special residence hall living requests, on-campus transportation, early academic scheduling, a variety of testing accommodations, note takers, readers, interpreters, assistance in acquiring "Books on Tape," and relocating class sections to aid access.

You are encouraged to contact the coordinator of services for students with disabilities upon acceptance to discuss any accommodations. Early notification is critical when seeking physical or academic course material accommodations.

Writing Center

The Writing Center is an integral part of the University's Writing Across the Curriculum program. Professional and peer-writing tutors help students develop effective writing and editing strategies that support the formal writing instruction presented in various courses throughout the curriculum.

Career Development and Placement Services

Career Development provides an opportunity for student self-evaluation, occupational skills and interests evaluation, and vocational outlook opportunities. A career library is also available.

The Placement Service helps students find meaningful employment upon graduation. Job vacancies, civil service opportunities, and teacher vacancies are publicized to seniors and alumni who are registered with the Career Development and Placement Office. On-campus interviews are scheduled and conducted by representatives of business, industry, public schools and civil service agencies. Student placement credentials are available to potential employers upon mutual request. It is important, therefore, that students wanting interviews with potential employers, or who are applying for positions, be registered with the service and have credential folders complete. A placement service fee is charged following graduation.

This office also serves as a testing center for national testing programs relevant to students' future goals such as the Graduate Record Examination (GRE), Miller Analogies Tests (MAT), and the National Teacher Examination (NTE). Information on other testing programs is also available.

VI. STUDENT LIFE

RESIDENCE HALL LIVING

The community living environment, provided through our residence halls, enables you to gain invaluable educational and personal experiences. While residence hall living presents many opportunities and conveniences, it also challenges you to demonstrate appropriate behaviors and live within university and societal expectations.

We can accommodate 1,800 students in our five residence halls. To meet the interests of our diverse student body, a variety of housing options are available, including single sex, co-educational, wellness floors, and special interest housing. In addition, standard double rooms, three-room suites and single rooms (space available basis) are available. To help ensure a positive living environment, each hall is supervised by a full-time, live-in professional staff member who is assisted by student staff members who live on each residence hall floor. All residence halls are smoke free.

Since our residence halls are homes away from home for our students, we have attempted to furnish and equip them to meet students' full needs. In addition to furniture, each room is equipped with cable TV hookup and there is computer network access and phone outlet for each student. Each residence hall has laundry facilities, computer labs, exercise/weight rooms, kitchenettes, study lounges, and comfortably furnished lounges for informal gatherings. You can also opt to rent lofts and microwave/refrigerator combination units. Our halls are the focal point for a variety of educational, recreational and social programs and activities.

Comprehensive information about residence hall living, on-campus residency requirements, and room assignments is in the university handbook, The Password for upperclassmen, The Student Planner for freshman, the residence life brochure, and our web site. All students are required to live on campus unless they are commuting or meet other criteria delineated in The Password for upperclassmen or The Student Planner for freshmen.

STUDENT ACTIVITIES

"Shaping Tomorrow's Leaders Through Involvement" is the motto of the Student Activities Office, recognizing that the university experience involves learning both in and outside of the classroom. To ensure a positive out-of-class educational experience, we offer a wide range of activities to supplement the in-class learning, to provide you with opportunities to gain valuable hands-on experience and to strengthen interpersonal skills. The Student Activities Office coordinates a variety of social, cultural, and recreational programs. A comprehensive listing of campus activities can be found on the Calendar of Events on our web site.

STUDENT ORGANIZATIONS

We have over 100 active clubs/organizations and a wide variety of music ensembles, both vocal and instrumental, that provide outlets for student interests as well as opportunities for students to sharpen personal skills and strengthen both leadership and organizational skills. Many of the activities planned by these organizations are funded by student activity fees.

Although participation in student organizations provides opportunities for having fun, developing personal skills and gaining hands-on experiences, a practical advantage for students can be to enhance your personal portfolio which could be very valuable when

entering the job market. The university encourages students to selectively become involved in these opportunities.

STUDENT CENTER

The Alumni Hall Student Center is a campus focal point for students to gather and relax. The Center contains space for a wide range of organized activities as well as informal gatherings. The Center houses the bookstore, a food court, game room, the Martin Luther King Jr. Resource Center, meeting rooms, organization mailboxes, TV lounge, multi-purpose room, and offices for the Student Government Association, Community-Service Learning Office, and College Community Services, Inc.

STUDENT GOVERNMENT ASSOCIATION

Student opinion and input into the operations of Mansfield University are valued and fostered. Our Student Government Association (SGA) provides a forum for discussion and an avenue for students to make change.

Under the umbrella of SGA, students serve on the Executive Board, Student Senate, and a wide range of university committees. Here, alongside faculty and staff, they are part of the decision-making process of the university.

ATHLETICS AND RECREATION

Mansfield University is a member of the National Collegiate Athletic Association (NCAA) and our 14 intercollegiate teams play at the Division II level.

Women's programs include soccer, field hockey, basketball, cross-country, swimming, softball, indoor track and track. Men's programs include football, cross-country, basketball, baseball, indoor track and track.

Our recreational sports program is for students who value athletic participation but at a less competitive and more social level. We provide a broad range of opportunities in men's, women's and coed events as well as multiple groups involved in aerobics. In addition, we have both indoor and outdoor facilities for organized as well as individual students participation. The Kelchner Fitness Center provides facilities for basketball, volleyball, badminton, indoor soccer, aerobics, racquetball and dance, and includes a well-equipped fitness room. Students may use the facilities individually, in groups, or as part of our recreational sports program.

HEALTH SERVICES

Primary medical care is provided at our clinic located on campus in Maple B. There is no additional cost for basic care beyond the health fee paid each semester. There is a fee, however, for specialized services such as tests and x-rays. Both the residence hall staff and University police are trained to deal with medical emergencies. Community ambulance service is available on a 24-hour basis to transport serious emergencies to local hospitals as required.

POLICE AND SAFETY SERVICES

The university Police Department, located in Doane Center, consists of a director, 10 commissioned police officers and 15-20 student patrol members. In addition to responsibilities for safety and police functions, the office handles registration of motor vehicles, registration and storage of hunting weapons, visitor parking permits and lost and found.

STUDENT POLICIES

EDUCATIONAL RECORDS CONFIDENTIALITY POLICY

We collect and maintain data and information about students for designated periods of time and for the express purpose of facilitating their educational development. We recognize the privacy rights of individuals, as guaranteed by the Family Rights and Privacy Act of 1974 and the Pennsylvania Right-to-Know Law of 1957. We attempt to balance those rights with the institution's need for information relevant to the fulfillment of its educational missions. As such, the university has an approved policy on the confidentiality of student records which outlines all procedures that apply to the collection, maintenance and release of such records. Copies of this policy are on file in the library or may be obtained at the Student Affairs Office, 516 North Hall.

You should be aware that the following information is considered public information and may be made available without prior consent. It is considered part of the public record of a student's attendance: name, address, phone number, date/place of birth, major, participation in activities/sports, weight/height of members of athletic teams, dates of attendance, degrees/awards received and most recent educational institution attended. Any student wishing to prevent the public disclosure of this information may request so by contacting the Office of Student Affairs prior to the close of the first week of classes of any given academic semester. Such a request, however, must be to prevent the public disclosure of all the aforementioned information.

SMOKING/TOBACCO POLICY

The Mansfield University policy on smoking and the use of smokeless tobacco is consistent with both the Pennsylvania Clean Air Act and policies established by the Board of Governors for the State System of Higher Education. Concerns with this policy or reports of violation of this policy should be directed to the Vice President for Administration and Finance.

1. Smoking or the use of smokeless tobacco products is not permitted in Mansfield University buildings, except in an area or individual office that has been designated as a smoking area. Classrooms, laboratories, reception areas, common areas, conference rooms or other places where classes, committees, or other public groups may convene are not to be designated as smoking areas. Entrances to buildings will be appropriately signed to indicate that smoking is permitted in designated areas.
2. The use of smokeless tobacco is only permitted in smoking areas. Users of smokeless tobacco products are to discard expectorant in toilets and not in common ash trays or common waste containers.
3. The Vice President for Administration and Finance (VP A&F) is responsible for the designation of smoking areas within buildings other than residence halls. Requests to a) designate a new or additional smoking area or b) to delete the designation of an area for smoking should be addressed to the VP A&F. The VP A&F shall make decisions on smoking area designations consistent with this policy after consulting, where appropriate, with other cabinet members and the Administrative Affairs Committee of the Faculty Senate.
4. Consistent with this policy, smoking is also prohibited in all residence halls.

IDENTIFICATION CARDS

A university identification card (I.D.) is issued to students, faculty, and staff. I.D's are examined at the library, at athletic events, and at various campus activities. It must be carried at all times and shown upon request to authorized university personnel.

Replacements and new I.D.'s are available for $10 in the CCSI Office, Alumni Student Center. ID's are also a student's meal card and can be used as a cash debit card.

DRUG AND ALCOHOL ABUSE

Mansfield University is an active member of the Network of Colleges and Universities Committed to the Elimination of Drug and Alcohol Abuse. The standards of the network have also been adopted by the Board of Governors of the State System of Higher Education as policy for all state universities.

We have the responsibility to provide a drug free environment where the use of alcohol and other drugs do not interfere with learning. For this reason, the possession, distribution, and/or use of alcohol and other drugs on the Mansfield University campus is prohibited. Persons violating this prohibition will face university disciplinary sanction, and/or arrest by university police. University disciplinary actions will include an educational component to encourage the individual's acceptance of the responsibility for his/her own choices and behavior.

Mansfield University will educate and provide information to the campus community for the purpose of preventing the abuse of alcohol and other drugs. The university will also provide counseling and referrals for persons with alcohol or other drug problems.

MOTOR VEHICLE REGISTRATION

Regulations pertaining to parking and vehicle use are available at the University Police Office, Doane Center, and are also distributed when registering your vehicle. All students and employees who operate a vehicle on campus must register the vehicle and display the appropriate decal.

ORGANIZATIONS

Advocacy Association

This is an organization of individuals who provide peer education in the areas of dating violence, sexual assaults, and sexual harassment. Support is also provided to students who may become victims of dating violence, sexual harassment or sexual assault.

All Residence Hall Council (ARHC)

ARHC is the governing body for the residence halls. Its purposes are to set hall policy, approve hall budgets, and to sponsor activities both in the halls and on a campus-wide level. ARHC is an active member of the National Association of College and University Residence Halls (NACURH). Delegates are sent to conferences on the local, regional, and national level. Membership is open to any student who lives in the residence halls.

Alpha Sigma Alpha

A national social sorority, Alpha Sigma Alpha's purpose is to assist college females in growing intellectually, spiritually, socially, and physically. Participation in the Special Olympics is our philanthropic project. Aspire, Seek, Attain is ASA's motto.

Alpha Sigma Tau
Alpha Sigma Tau is a national sorority emphasizing academics. A minimum 2.3 grade point average is necessary to participate. AST is involved in a variety of social service activities both with the local community and nationally. The motto is Active, Self-reliant, and Trustworthy.

American Choral Directors Association (ACDA)
The ACDA chapter at Mansfield University is affiliated with the National American Choral Directors Association. The purposes of the chapter are to provide an incentive for students to become more committed to the art of choral conducting at an earlier age; to provide learning opportunities outside the classroom; to provide useful services to the choral area and music department; to encourage student leadership and direct experience with Apeer motivated@ discovery of the choral art. Any Mansfield University student is welcome.

American String Teachers Association
The Mansfield student chapter of ASTA is an organization open to students who play string instruments. The organization promotes a high standard of string playing and teaching in the community, schools, orchestras and on campus.

Anime/Video Club
This club is for those individuals who are interested in watching Japanese animation and playing video games.

Anthropology Club
The Mansfield University Anthropology Club welcomes students from all majors who have an interest in anthropology and archaeology. Interests in a broad range of social sciences, cultures, art and history are represented by the club members. The club participates in archeological digs and sponsors cultural events such as bringing Native American dancers and guest speakers to campus.

Aquaculture Club
This organization plans and provides educational programs and activities in the fields of fish culture and biology, including movies, slide shows, seminars and field trips.

Art Acquisition/Exhibition
This is a student committee working under the guidance of a faculty advisor. The committee plans monthly art exhibits on campus and oversees the university=s permanent art collection. It also schedules and implements student art exhibits and purchases art work for the permanent collection. Open to all interested students.

Badminton Club
The Badminton Club is made up of Mansfield University students and staff who have a common interest in competitive badminton. Club members represent the school at several regional tournaments each year and the Mansfield Club hosts a tournament of its own each February.

Best Buddies
The mission of Best Buddies is to enhance the lives of people with intellectual disabilities by providing opportunities for one-to-one friendships and integrated employment. We do this at the college level by matching college student volunteers in mutually enriching friendships with persons with intellectual disabilities.

Biology Club
The objectives of the Biology Club include advancing the level of biology knowledge, providing an opportunity for interaction for students with an interest in biology and facilitating discussion on topics and careers in this field. The club accomplishes these objectives through meetings, discussions, educational programs and community service projects.

Black Student Union (BSU)
BSU is an academic and social support group for students interested in the promotion of the culture and interest of African-Americans, Hispanics, or other students of African descent. Activities are designed to encourage and motivate students to realize personal potential, achieve academically, and increase cultural knowledge.

Boxing Club
This club provides an opportunity for conditioning and competition that helps promote physical and mental well-being.

Campus Crusade for Christ
The Campus Crusade for Christ is one of several student groups on campus that provide opportunities for students to pursue interests and issues related to their spiritual needs and benefits.

Cedarcrest Hall Council
The Crest Council is the governing body for Cedarcrest Manor, a popular co-ed residence hall. The group is open to all residents of Cedarcrest Manor and consists of four officers, representatives from each floor, and residents who want to make a difference.

Cheerleaders
Cheerleading is open to any student with an overall 2.00 QPA. Up to 16 women and 16 men are chosen through tryouts. The football squad is selected in March and the basketball squad in October.

Chemistry Club
The Chemistry Club gives students an opportunity to become better acquainted with the field of chemistry. Members and the student body benefit from guest speakers, films, projects, and special programs.

Chi Alpha Epsilon Honor Society
This organization was formed to recognize the academic achievements of students admitted to college and universities through non-traditional criteria. Its purpose is to promote continued high academic standards, foster increased communication among its members and honor academic excellence for those students admitted to college via developmental programs.

Club Canada
Furthering awareness of the economic, political, cultural, historical and geographical aspects of Canada are the primary goals of this organization. Participation in discussions, debates, seminars, field trips, and cultural events are some of the ways club members accomplish their goals.

Computer Science Club and Student Web
This club is open to any student with an interest in computers. It will enhance the opportunities available to the student through guest speakers, field trips, and participation in the Pennsylvania Association of Computer and Information Science Educators (PACISE).

Council for Exceptional Children
The student chapter of Council for Exceptional Children is affiliated with the national conference. Membership in the chapter is open to all college students, especially those interested in working with exceptional children. There is a membership fee for joining on the national level, which includes a monthly journal, but it is free to all students for the local level. Members have opportunities to meet and talk with professionals in the field. Specific activities are planned which promote the pre-professional development of the members. Group activities include dances for individuals in residential facilities, state and national conferences, special Olympics, and guest speakers.

CATS (Creative Arts Therapy Sounding)
The Music Therapy Organization sponsors workshops, guest speakers, and representation at conferences in support of the profession of music therapy. It is affiliated with the National Association for Music Therapy Students and is open to anyone interested in music therapy.

Criminal Justice Club
This club's purpose is to promote interest and understanding of the criminal justice system. The organization, open to all interested students, provides the opportunity for members to meet with professionals in the areas of law enforcement, corrections, and the court system.

CURV (Creating a University with Respective Values)
This organization is for parents, families and friends of Lesbians and Gays (PFLAG) who come together to promote the health and well-being of gay, lesbian, bisexual and trans-gendered persons, their families and friends through support - to cope with an adverse society, education – to enlighten an ill-informed public, advocacy – to end discrimination and to secure equal civil rights.

Delta Zeta Sorority
Delta Zeta sorority members have the opportunity to interact with peers, strengthen self-confidence, achieve academic excellence, develop leadership potential, and help others through national and local philanthropies. Delta Zeta supports all Anti-Hazing Laws. A minimum 2.5 grade point average is necessary to join.

El Club de Espanol
El Club de Espanol is an organization devoted to the stimulation of interest in the Spanish language and culture. Its many activities included field trips, movies, and dinners. Anyone is welcome.

Fellowship of Christian Athletes
Open to all, FCA's mission is to present to athletes, coaches, and all whom they influence, the challenge and adventure of receiving Jesus Christ as savior and lord, serving Him in their relationships and in the fellowship of the church.

Flashlight
This is the student newspaper and is published weekly by Mansfield University students. A wide variety of service opportunities are available for staff members including reporting, typing, designing, selling and taking photographs. Additional staff are always welcome.

French Club
The purpose of this group is to stimulate ability and interest in the French Language, as well as French Culture and Literature.

Geography Club
The Geography Club furthers the diverse interests of geography majors, minors and other interested students. The club sponsors presentations and trips related to regional planning, environmental science and other aspects of geography.

Geology Club
The Geology Club promotes geology in the Mansfield area. It is open to all students and faculty. The Geology Club sponsors a variety of field trips and speakers. Members attend and participate in professional meetings.

German Club
This group seeks to recognize excellence in the study of German and to provide an incentive for higher scholarship. The organization aims to promote the study of the German language, literature, and civilization, and endeavors to emphasize those aspects of German life and culture which are of universal value and which contribute to man's eternal search for peace and truth.

Hemlock/Pinecrest Hall Council
This council consists of representatives of both residence halls. Meetings are held weekly and are open to all Hemlock and Pinecrest residents. They host semi-formals, picnics, parties, and tournaments for the residents.

History Club
Open to any interested student, the History Club=s purpose is to facilitate students= interest in history and to foster professional growth, as well.

Honors Association
Membership is open to any student in good standing in the university=s Honors Program. Its purpose is to plan and implement the social and cultural events of the association.

Interfraternity Council (IFC)
The Inter-Fraternity Council is the governing body of the social fraternities. Its purpose is to promote the best interests of the fraternity system and the university. IFC makes binding rules concerning fraternity policy, and enforces rules for rushing, pledging, intramurals, and scholarships. IFC promotes the spirit of cooperation among all fraternities and the highest ideals of fraternalism.

International Association of Jazz Educators
The purpose of this organization is to bring together those interested in jazz, rock and popular music and to provide opportunities for musical experiences and growth. IAJE is a sponsor of the annual Mansfield University Jazz Festival.

Judo Club
The objective of this club is to teach judo and provide opportunities to learn and practice judo.

Kappa Kappa Psi
This organization operates primarily as a student service and leadership recognition society whose chief aim is to assist the Director of Bands in developing the leadership and enthusiasm that is required of his/her band. Our goals are to provide the band not only with organized and concentrated service activities, but to give our membership valid and wholesome experiences in organization, leadership and social contracts.

Kappa Phi
Kappa Phi is a sisterhood strongly rooted in Christ. We are a nondenominational group of Christian university women. Our purpose is to provide opportunity and challenge to serve Christ through our lives.

Kayak Club
The purpose of this organization is to promote the sport of kayaking in a safe and fun manner. It is open to all students, Mansfield University personnel, and interested community members.

Knights of Columbus
The purpose of this organization is to provide a place for Catholic gentlemen to continue service through community and campus activities.

Lambda Alpha Epsilon
Lambda Alpha Epsilon is open to any student interested in the criminal justice field, either in the study of or employment in such areas.

Lambda Pi Eta
The purpose of this organization is to recognize, foster and reward outstanding scholastic achievement in communication studies; to stimulate interest in the field of communication; to promote and encourage professional development among communication majors; to provide an opportunity to discuss and exchange ideas in the field of communication; to establish and maintain closer relationships and mutual understanding between speech communication studies faculty and students and to explore options for graduate education in communication studies.

Lambda Sigma
Lambda Sigma is a national honor society for sophomore men and women dedicated to fostering leadership, scholarship, fellowship, and the spirit of service among college students. They promote the interests of Mansfield University. The Alpha Epsilon chapter offers students opportunities for personal growth, leadership experience, and a sense of involvement in Mansfield University.

Laurel Hall Council
LHC is the governing body for Laurel Manor and is responsible for various programming activities and hall improvement suggestions. LHC works in cooperation with ARHC. Each floor elects two representatives to the council each semester. Officers are elected from within the hall for a term of two semesters.

LEO Club of Mansfield University
The goal of this organization is to promote service activities among the youth of the community which will develop the individual qualities of Leadership, Experience and Opportunity and to unite its members in friendship, fellowship and mutual understanding. The LEO Club is affiliated with Lions International.

Mansfield Activities Council (MAC)
MAC plans programs and activities for the entire university community, including movies, concerts, coffeehouses and cultural affairs, as well as feature arts and forums. MAC also assists other university organizations in programming.

Mansfield College Republicans
The purpose of this organization is 1) to make known and promote the principles of the Republican Party among members of the Mansfield campus and community; 2) to aid in the election of Republican candidates at all levels of government; 3) to encourage and assist in the organization and active functioning of the Republican Party at local, state, and national levels; 4) to organize community service projects, run issue advocacy, lobbying efforts, help bring conservative guest speakers to campus and organizing social events and other activities and 5) to develop political skills and leadership abilities among Republican students as preparation for future service by them to the Party and community.

Mansfield International Student Organization
This club was created by the Mansfield University international students. While membership is open to all interested students, American students are especially encouraged to join. With the rich and diverse cultures of its members from all over the world, the organization is unique and has much to offer educationally, socially and culturally.

Maple Hall Council
Maple Hall Council benefits Maple Hall and the campus. The council consists of representatives living on each male and female floor in the building. Members plan activities, fund raisers and represent students in the campus and residence hall decision-making process.

Mathematics Club
The purposes of the Math Club are to promote communication among students and faculty and to encourage participation in activities related to mathematics. Activities sponsored by the Math Club include field trips, speakers, and social events in addition to assisting the department in various ways.

Mountaineer TV Productions
Purposes of the TV Club include exposing members to the world of TV and TV production, promoting an exchange of ideas with respect to TV production and promoting a cooperative attitude between faculty members and students in the Communication and Theatre Department.

MU Dramatists
This organization was created to stimulate interest in the field of dramatics and to encourage the creative ability of its members.

MU XI Literary Society
An organization to stimulate and foster appreciation of language and literature and to give encouragement to creative and critical writing. Through its literary magazine, MU XI, it seeks to benefit, not only its members, but the entire university community.

Mansfield University Nurses Association:
The purpose of this organization is 1) to provide each member with the opportunity to contribute to the growth of the organization by encouraging participation as an individual and as members. 2) to assist each member in achieving professional and social growth through participation in this organization as well as similar organizations in area, state and national level and 3) to develop an interest in recruitment to nursing and to this school.

Music Educators National Conference
MENC helps promote contact between students interested in the field of music education and music educators on the local, state and national levels.

National Alliance of Saxophonists
NASA is a student run organization that is part of a national organization which operates to further the composition and performance of saxophone music.

National Art Educators Association
The purpose of this chapter is to provide an effective transition from art education preparation to professional practice. To maintain a high standard of quality art education and the visual arts on campus and in the community. To gain greater insight and perspective about the teaching of art and contemporary concepts in art education and the visual arts. Sponsor service projects such as speakers, symposia, exhibitions, etc. Promote an exchange of ideas in substantive art education and the visual arts. To promote art education and all areas of the visual arts as a career choice.

Non-Traditional Student Organization
Since significant numbers of Mansfield University students commute to campus and/or are sometimes, older students who have been away from the formal educational

environment for a period of time, the goal of this organization is to attempt to provide opportunities for these students to become a more integral part of the Mansfield University community.

Panhellenic Council
Panhellenic Council is the governing body for all sororities. It is executive, legislative, and judicial. The branches compile the rules and regulations by which the sororities abide. Panhellenic Council sponsors Rush Week, the Scholarship Cup, and the Panhellenic Handbook. In cooperation with the Inter-Fraternity Council (IFC), Panhellenic co-sponsors Greek Week.

Phi Beta Lambda
Phi Beta Lambda is a national business fraternity associated with Future Business Leaders of America (FBLA). Phi Beta Lambda operates Greek T's and More, a business on campus which provides members with experience and understanding of how a business operates. Phi Beta Lambda is also responsible for Career Seminar Day, a major annual event on campus.

Phi Beta Sigma
Phi Beta Sigma fraternity embraces the principles of brotherhood, scholarship, and service which are crystallized in the fraternity motto Culture for service and service for humanity.

Phi Kappa Sigma
The purpose of this organization is 1) to help each member take an active and positive role in the University Community; 2) to enhance University and Community life through social affairs and benefits; 3) to help each member discover and aspire to his own unique potential as an individual; 4) to promote honesty, integrity, and brotherhood amongst the members; 5) to promote the fraternal system of Mansfield University.

Phi Mu Alpha Sinfonia
The primary purpose of this fraternity shall be to encourage and actively promote the highest standards of creativity, performance, education, and research in music in America. Further purposes shall be to develop and encourage loyalty to the Alma Mater, to foster the mutual welfare and brotherhood of students of music, to develop the truest fraternal spirit among its members, and to instill in all people an awareness of music's important role in the enrichment of the human spirit.

Phi Mu Delta
Originally established as the local fraternity Alpha Omega Delta, Phi Mu Delta national fraternity colonized a chapter on the Mansfield University campus in the fall of 1997. A member of the Greek System and Inter-Fraternity Council, this social fraternity is committed to fostering an environment of mutual respect, friendship and academic excellence.

Phi Sigma Pi
Phi Sigma Pi has the distinction of being Mansfield's first fraternity. This national honor fraternity is described as being one-third academic, one-third service, and one-third social. To pledge Phi Sigma Pi, one must have a 3.0 cumulative grade point average and be at

least a second semester freshman. Phi Sigma Pi welcomes any man or woman who is concerned with the ideals of knowledge, training, and friendship.

Philosophy Club
Promoting philosophical activities on campus, the Philosophy Club sponsors trips, lectures, panel discussions and films on a broad variety of subjects. It also publishes Synapse, a student magazine of philosophy and opinion that has appeared annually since 1979.

Physics Club
Some of the objectives of the members of the club are to advance the level of physics knowledge and to provide a forum for discussing recent physics discoveries, careers in physics and other related topics.

Pre-Law Association
Our primary purpose is to provide information to students who plan to attend law school. Guest speakers and field trips benefit both members and non-members.

Psi Chi
Psi Chi is the national honor society in psychology. It provides academic prestige to its initiates by the mere fact of membership. To be considered, one must be a psychology or human relations major, have a minimum of a B average, and 9 credit hours in psychology.

Psychology Club
The purpose of this organization is to advance interest in and knowledge of psychology and to encourage, stimulate, and maintain scholarship of the individual members in all fields.

Public Relations Society
The Public Relations Society is open to, and interested in all students. We offer students the chance to generate creative ideas and put those ideas into action, to better our community on and off campus.

Saddle Club
This club is open to all students from beginning to advanced riding levels. Grooming, saddling, and trail riding are club activities. We also participate in field trips and other activities. Activities are based on the interests of the members.

Sigma
Service, to both the university community and community at large, and strengthening the relationships between the two are the primary purpose of this organization.

Sigma Alpha Iota
Sigma Alpha Iota is an international music fraternity for women whose ideals are high standards of musicianship, scholarship, sisterhood, and character. Any woman in the music department who is under private musical instruction, has at least 6 credits in music, has a 2.5 academic average, and a B in her major applied area, is eligible to pledge membership.

Sigma Dove Social Society
This organization serves as a service organization to the campus community and surrounding areas by promoting our principles of sisterhood, scholarship and service.

Sigma Tau Gamma
Established in 1965, this is the oldest social fraternity still active on the Mansfield University campus. Sig Tau is active in service projects, campus activities and its members can often be found in student government, finance committee and other key campus organizations.

Sigma Zeta
As the national honorary science and mathematics society on campus, Sigma Zeta recognizes outstanding academic achievement in the natural sciences and mathematics. It also provides an opportunity for social and educational interaction among students sharing common academic interests and career goals.

Slightly Askew
This group's plan is to provide entertainment for Mansfield University students, while exposing students to lesser known genres of music, particularly Ska Music.

Ski and Snowboard Club
The Ski and Snowboard Club's interest is in the pursuit of the sport and its intrinsic values such as recreation, exercise, the exhilaration of being outdoors and the developing of a life-long physical and social activity. The Ski Club organizes weekly trips to local ski areas as well as a week long trip to a major United States ski area over semester or spring break. The club negotiates special lift ticket rates, provides transportation, and operates a fully equipped, up to date, ski rental shop.

Social Work Club
The Social Work Club is open to all Mansfield University students. It is an integral part of the department and seeks to foster dialogue between the faculty and the students. The club meets regularly to determine members' attitudes and feelings regarding policy, requirements, curriculum. It is a vehicle through which students are exposed to the professional world of human services in general and professional social work in particular.

Sports Nutrition Majors' Club
The purpose of this organization is to stimulate interest in the area of Sports Nutrition and to provide career and workshop information for students.

Student Alumni Ambassadors
This program helps extend the university's mission, increases its visibility and promotes quality. Ambassadors serve as good-will ambassadors for the university, as a host / hostess for special university events, and they provide a vehicle through which future alumni leaders are cultivated.

Student Association Nutrition and Dietetics
This organization is open to anyone interested in dietetics and/or food service management. Members learn about their future professions through invited speakers, educational field trips and bi-monthly meetings. Members of Mansfield S.D.A. are also

members of the Pennsylvania Student Dietetic Association and are eligible to be members of the American Dietetic Association.

Student Athletic Advisory Committee
The purposes of this organization is a) To facilitate the total development of student athletes; b) Open lines of communication between male and female athletes, coaches, faculty, and administration; c) Be an advocate for specific student athlete needs; d) Develop an awareness of the responsibilities of student athletes on and off the University campus and e) Review N.C.A.A. legislative proposals and obtain student athlete input.

Student Government Association
The Student Government Association is the elected governing body representing Mansfield's students. SGA is comprised of a senate, with one senator for each 100 students, and an executive committee, consisting of a president and a vice president. This body represents and promotes student issues and concerns with the faculty and administration and is a good way to become involved.

Student PSEA
To develop among college students preparing to teach: (a) an understanding of the teaching profession through participation in the work of the local, state, and national education associations; (b) to provide leadership training and experiences; (c) to plan activities that can be coordinated with other existing chapters= programs; (d) to provide opportunities to observe and work with citizen groups for the welfare of children and public education; (e) to seek actively higher standards of teacher education; (f) to stress the importance of careful selection of persons admitted to teacher education institutions with emphasis on character, personality, and scholarship.

Students in Free Enterprise (SIFE)
The purposes of this organization shall be: 1) To teach others an understanding of how market economies and businesses operate; 2) To help businesses to use our knowledge to better themselves, their community, and their country; 3) To promote individual ideas and teamwork among individuals associated with SIFE; 4) To build a partnership between Mansfield University SIFE and businesses in society. All students and alumni of Mansfield University can be members of SIFE.

Tau Beta Sigma
Tau Beta Sigma is a national honorary band sorority that promotes and supports collegiate bands and band activities. Opportunities exist for members to gain in such areas as leadership, musical achievement, and promotion of worthwhile projects. Eligibility is based on a QPA of at least 2.5 and participation in the Concert Wind Ensemble, Symphonic Band, Jazz Band, or Orchestra.

The Wandering Otaku Screening Society
This organization exists to expose lesser-known forms of animation, live-action film, and other media to the Mansfield campus, to stimulate a greater interest in such media, and to broaden the "pop-cultural" horizon of all interested parties.

Travel Club
The purpose of this organization is to provide a learning travel experience, once a semester, and to gather knowledge about the process of planning group travel.

Tubists Universal Brotherhood Association
A worldwide organization of musicians whose purpose is to maintain a liaison among those who take a significant interest in the instruments of the tuba and euphonium family-their development, literature, pedagogy and performance.

WNTE-FM
Music Radio 89 is dedicated to providing educational, informative and entertaining programming for the campus and community. Radiating at 89.5 megacycles, WNTE is a 115 watt educational FM station, licensed by the Federal Communications Commission. With main studios and offices located in the lower level of South Hall, WNTE welcomes all interested students to join in the fun of broadcasting.

Zeta Tau Alpha
Zeta Tau Alpha is a women's social fraternity. Zetas always strive for academic excellence, while maintaining a high social standard of conduct. Individual interests include a variety of well-rounded activities: sports, music, cheerleading, student government, and community service, among others. ZTA is also proud to support the Susan G. Komen Breast Cancer Foundation.

VII. ACADEMIC PROGRAMS

Mansfield University offers 73 four-year baccalaureate programs in the liberal arts and professional studies, 45 minors, and five two-year associate degree programs as well as six master's degree programs.

General Education
Bachelor Degree Programs

Accounting, see Business Administration
Anthropology, see Social Work, Anthropology and Sociology
Art Education
Art History
Biology
Biology, Cell and Molecular Concentration
Biology, Education
Biology, Environmental Science Concentration
Biology, Fisheries
Business Administration, Accounting Concentration
Business Administration, General Business Concentration
Business Administration, International Business Concentration
Business Administration, Management Concentration
Business Administration, Marketing Concentration
Chemistry with Chemistry, Biochemistry, Nanotechnology and Forensic Science Concentration
Chemistry, Education
Communication
Computer Information Science, Computer Science Concentration
Computer Information Science, Information Systems Concentration
Computer Information Systems, A.S.
Criminal Justice Administration
Criminal Justice Administration, A.S.
Earth and Space Science Education
Economics
Elementary Education
Elementary Education with second Certification in Early Childhood
Elementary Education with second Certification in Special Education
English Literature
English Education
French
French Education
Geography
Geography, Environmental Science Concentration
Geography, Mapping Technology Concentration
Geography, Regional Planning Concentration
Geography/Mapping Technology A.S.
German
German Education
History
History: Social Studies (for certification in Citizenship Education)
Honors Program
Human Resource Management, Psychology
International Business, see Business Administration
Journalism, see Mass Communication
Leadership for Children and Adults with Disabilities
Liberal Studies
Management, see Business Administration
Mass Communication, Broadcasting Concentration
Mass Communication, Journalism Concentration
Mass Communication, Public Relations Concentration
Mathematics
Mathematics Education
Medical Technology
Music
Music, Elective Studies in Business
Music, Education
Music, Performance
Music Therapy
Nursing
Nutrition and Dietetics
Philosophy

Physics with Physics, Pre-Engineering or Nanotechnology Concentration
Physics Education
Political Science
Pre-Engineering, see Physics
Psychology
Public Relations, see Mass Communication
Radiology Technology, A.A.S.
Regional Planning, see Geography and Geology
Respiratory Therapy, A.A.S.
Secondary Education
Social Work
Sociology/Anthropology
Spanish
Spanish Education
Special Education
Special Education with second Certification in Elementary Education
Travel and Tourism
Travel and Tourism, A.S.

Minors

Accounting
African-American Studies
Anthropology
Art History
Biology
Business Administration
Canadian Studies
Chemistry
Communication
Computer Science
Creative Writing
Criminal Justice
Economics
Education
English Literature
Environmental Studies
Forensic Science
French
General Computing
Geography
Geology
German
Gerontology
History
Information Systems
International Studies
Latin American Studies
Marketing
Mathematics
Music
Nutrition
Philosophy
Physics
Political Science
Pre-Law
Psychology
Psychology of Human Development
Regional Planning
Social Welfare
Sociology
Spanish
Statistics
Studio Art
Theatre
Travel and Tourism
Women's Studies

GENERAL EDUCATION

Philosophy

The objective of the general education component of an undergraduate degree is to provide students with a foundation for lifelong learning and to enable them to function as responsible citizens in a rapidly changing world, consistent with the traditions of a liberal education.

General Education is designed, therefore, to enable students to continue to learn independently of formal classroom instruction. It extends throughout the undergraduate experience and into campus and community life. General Education encourages students to develop their abilities to observe, analyze and resolve problems, essential skills in a pluralistic and global environment. Finally, General Education makes students aware of the concept of ethical and moral responsibility to self and society.

General Education complements major course work and assists students in taking their proper place in society by helping them comprehend humankind; its cultures and history, the philosophies by which it lives, the means by which it communicates, and the arts and sciences which better its existence.

Program Overview

There are two types of courses in General Education: Core and Group Distribution Requirements.

Core Courses (16 credits)

The Core Courses are designed to contribute to students' knowledge of the human experience in a variety of ways. Having completed the Core Courses, a student will be able to comprehend the breadth and depth of ideas related to human activity of both mind and body.

Student Learning Outcomes:

Students will demonstrate:

- Knowledge of at least one of the varying forms of artistic expression
- Enhanced oral communication skills
- Enhanced written communication skills
- Knowledge of behaviors that promote personal well-being.

Courses:

General Education Core

UNV	1100	First-year Experience Seminar (1 credit)
COM	1101*	Oral Communication
ENG	1112W*	Composition I
ENG	3313W**	Composition II

Fine Arts (3 credits)

ARH	1101	Introduction to Art
MU	1101	Introduction to Music
THT	1110	Introduction to Theatre

Wellness (3 credits)

BUS	2202	Personal Finance
DIT	1101	Personal Nutrition
DIT	2211	Introduction to Nutrition
DIT	2220	Nutrition and Exercise
DIT	3300	Cultural Nutrition and Food

HPE	1100-1199	
HPE	3340	First Aid and CPR
MEN	3331	Marching Band
NUR	4402	Women's Health
NUR	4433	Health Promotion and Disease Prevention Strategies
PSY	4421	Death and Dying

* All students should take these courses during their first year.

** ENG 3313W must be passed with a grade of "C-" or better.

\# Nursing degree students must be currently CPR certified before attempting any clinical course or complete HPE 1164 when attempting to complete the wellness requirement.

Group Distribution Requirements

General Education distribution requirements are satisfied through completion of courses in the Liberal Arts and Sciences disciplines. Students must satisfy the minimum requirements in each of the six following groups:

Group 1. Humanities (6 credits)

Students completing courses in the humanities acquire an understanding of the historical and philosophical traditions that shape the world. Courses examine historical and philosophical issues critically and comparatively through reading and discussing fundamental texts from the world's traditions.

Courses:

Canadian Studies		
CDN	1101	Introduction to Canada
Honors		
HON	1100	Humanities Honors I
HON	1101	Humanities Honors II
History		
HST	1111	Western Civilization I
HST	1112	Western Civilization II
HST	1113	The World in the Twentieth Century
HST	2201	American History Through the Civil War
HST	2202	American History – Reconstruction to the Present
HST	2210	Herstory – The American Side of Women's Past
HST	2220	World War II
HST	2226	Film as History
HST	3265	History of Sports in America
HST	3295	Topics in History
Philosophy		
PHL	2201	Introduction to Philosophy
PHL	2202	Contemporary Moral Problems
PHL	2230	Introduction to Logic
PHL	3280	Philosophy of Religion
PHL	3300	Philosophy of the Arts
PHL	3340	Ethics
PHL	3380	Health Care Ethics
Women's Studies		
WS	1100	Introduction to Women's Studies

Group 2. Languages and Literature (6 credits)

Foreign Languages

Students completing foreign language courses will have an appropriate level of skill in speaking, reading, writing, and listening to the target language.

Foreign Languages

Any course in the Foreign Languages.

Literature

Students completing literature courses will have a knowledge of literary texts – their genres, literary devices, historical and cultural background, significance for readers today – and the analytical tools needed to work with these texts.

Courses:

English

ENG	1115	Introduction to Literature
ENG	2203	Readings in Ancient Literature
ENG	2204	Readings in World Literature
ENG	2207	Readings in British Literature
ENG	2208	Readings in American Literature
ENG	2220	Special Topics in Literature
ENG	2224	Introduction to Linguistics
ENG	2225	English Grammar
ENG	2226	History of English Language
ENG	3281	Introduction to Linguistics
ENG	3305	Comparative Literature
ENG	3320	Special Topics in Literature
ENG	3226	Women's Literature
ENG	3327	African American Literature
ENG	3328	Lesbian and Gay Literature
ENG	3329	Regional Literature
ENG	3332	Nature Writing
ENG	3352	Shakespeare
ENG	3376	Major Genre

Group 3. Mathematics (3 credits)

Students completing MA-prefix courses develop an ability to understand and to utilize numerical data and mathematical methods for analysis and problem solving.

Courses:

All MA Prefix courses except:

MA	0090	College Algebra
MA	3304	History and Philosophy of Mathematics

Group 4. Natural Sciences (6 credits)

Students completing courses in the natural sciences experience scientific experimentation through laboratory exercises, focus on the nature of scientific reasoning, discovery, and invention through the systematic exploration of basic concepts. Students will complete at least one laboratory course.

Courses:

Astronomy

AST	1105	The Exploration of the Solar System
AST	1106	One Possible Universe
AST	1108	Observing the Autumn Sky

AST	1109	Observing the Winter Sky
AST	1110	Observing the Spring Sky
AST	1111	Observing the Summer Sky

Biology

BI	1110	Zoology
BI	1130	Botany
BI	2251	Tropical Marine Biology
BSC	1101	General Biology
BSC	1102	Contemporary Biological Problems
BSC	1103	Environmental Biology
BSC	1104	Human Biology
BSC	1119	Human Anatomy
BSC	1120	Human Physiology I
BSC	1121	Human Anatomy and Physiology I
BSC	1122	Human Anatomy and Physiology II
BSC	3271	Microbiology for Health Sciences

Chemistry

CHM	1101	Introduction to Chemistry
CHM	1102	Organic and Biochemistry
CHM	1103	Chemistry and the Environment
CHM	1105	Drugs and How They Work
CHM	1110	Survey of Chemistry, Introductory, Organic, and Biological
CHM	1111	General Chemistry I
CHM	1112	General Chemistry II

Geology

GEL	1102	Environmental Geology
GEL	1121	Physical Geology

Honors

HON	1107	Macro Physical Science
HON	1108	Micro Physical Science

Physics

PHY	1151	Conceptual Physics I
PHY	1152	Conceptual Physics II
PHY	1191	Physics I
PHY	1192	Physics II
PHY	2210	General Physics I
PHY	2211	General Physics II

Science

SCI	1104	Forensic Science
SCI	1107	Macro Physical Science
SCI	1108	Micro Physical Science

Group 5. Social Sciences (9 credits)

Students completing courses in the social sciences examine the structure and organizing principles of human societies, including their psychological and cultural dimensions, as well as their economic, social, and political foundations.

Courses:

Anthropology

ANH	1101	Cultural Anthropology
ANH	1102	Physical Anthropology: Human Evolution

	ANH 2250	Anthropology of Gender
	ANH 2280	Anthropological Linguistics
Economics		
	ECO 1101	Principles of Macroeconomics
	ECO 1102	Principles of Microeconomics
	ECO 2204	History of Economic Thought
	ECO 2205	Contemporary Economic Problems
Geography		
	GEG 1101	World Regional Geography
	GEG 1102	Human Geography
	GEG 1111	Physical Geography
	GEG 1122	Environmental Issues
	GEG 3380	Geography of the U.S. and Canada
	GEG 3381	Geography of Pennsylvania
Political Science		
	PSC 1100	Introduction to Politics
	PSC 2201	American Politics
	PSC 2204	State and Local Politics
	PSC 2210	World Politics
	PSC 2212	Comparative Politics
	PSC 2235	Research Methods
	PSC 3301	Participation and Elections
	PSC 3312	Canada, Mexico, and the US
	PSC 3333	Modern Ideologies
	PSC 4402	President and Congress
Psychology		
	PSY 1101	Introduction to General Psychology
	PSY 2203	Telephone and Survey Research
	PSY 2210	Psychology of Family Relations
	PSY 2212	Human Sexuality
	PSY 2225	Leadership Skills
	PSY 3290	Life Span Development
	PSY 3292	Child Psychology
	PSY 3321	Adolescent Psychology
	PSY 3325	Advanced Leadership
Sociology		
	SOC 1101	Introduction to Sociology
	SOC 1121	Contemporary Social Problems
	SOC 2203	Telephone Survey Research
	SOC 2232	American Family Systems
	SOC 3300	Men in Society
	SOC 3302	Community
	SOC 3306	Interracial Seminar
	SOC 3321	Futuristic Society
	SOC 3322	Sociology of Aging
	SOC 4415	American Values in Conflict
	SOC 4460	Sociology of Health and Medicine

Group 6. General Education Elective (9 credits)

Any courses, regardless of level (1000-4000), from the same disciplines approved for Distribution Group Requirements (Groups 1 through 5) may be used as a General Education Elective. Any Art History (ARH) or Art (ART), Communications (COM), Music (MU), or Theatre (THT) course may also be used as a general education elective. Introductory courses in certain professional departments are approved as acceptable General Education Electives. If this area is then selected as a major, the course must be replaced with another General Education or Professional course. One Professional Course may be selected from the following approved courses: (A Professional Course is not required to complete this group).

BI	3392	Fish Management
BUS	1130	Introduction to Business and Management
CIS	1103	Introduction to Microcomputers
CJA	1100	Introduction to the Administration of Criminal Justice
ED	1100	Schools and Society
RPL	1102	Introduction to Regional Planning
SPE	1101	Introduction to Special Education
SWK	1101	Human Services
TRT	1102	Introduction to Travel and Tourism

Global Awareness (G)

Global awareness opens doors into varied cultures and furthers an understanding of our complex world. It considers the perspectives of peoples from cultures and circumstances other than one's own, and the major challenges facing humankind requiring global cooperation, while also recognizing the phenomena that engender continued conflict and competition in an increasingly interdependent world.

All students will complete 3 designated Global Awareness (G) courses.

Transfer students have the following exceptions:

Students who transfer in 31-60 credits musts complete 2 "I" and 2 "G" courses.

Students who transfer in 61 or more credits must complete 1 "I" and 1 "G" course.

At least 1 "I" course must be at the upper level.

Associate Degree candidates must complete one "I" course and one "G" course.

Applied Associate Degree candidates must complete one "I" course.

Student Learning Outcomes:

Student will:

- Identify major global issues.
- Examine global issues from multiple perspectives.
- Examine the concepts of power, gender, race and class intra- and inter-culturally.
- Compare and contrast their own beliefs and attitudes with those of other national, cultural, racial, ethnic, gender, and religious groups.

Courses: List Subject to Change

All foreign language courses are Global

ANH	1101	ENG	3269	HST	3388
ANH	2250	ENG	3305	HST	3389
ANH	2255	ENG	3351	HST	4420
ANH	3260	ENG	3352	HST	4452
ANH	3301	ENG	3356	HST	4471
ANH	3305	ENG	3360	HST	4487
ANH	3308	GEG	1101	MA	3304
ANH	3250	GEG	1102	MTH	3372
ANH	4440	GEG	1111	MU	2220
ANH	4480	GEG	1122	MU	2221
ARH	4408	HST	1111	MU	2222
ARH	4410	HST	1112	NUR	3271
CDN	1101	HST	1113	NUR	4433
CDN	3370-3380	HST	2220	PHL	3330
CDN	4450	HST	3313	PSC	2210
CDN	4490	HST	3330	PSC	2212
COM	3325	HST	3345	PSC	3312
DIT	3300	HST	3366	PSC	4412
ENG	1130	HST	3377	PSY	4422
ENG	2207	HST	3387	SOC	1101

Information Literacy (I)

Information Literacy is a fundamental component of the educational process in which a student learns how to think actively and critically about information. Courses designated as Information Literacy (I), require students to become skilled users of information sources in many locations and formats, thereby increasing their responsibility for their own learning.

All students will complete 3 designated Information Literacy (I) and 3 designated Global Awareness (G) courses. At least two "I" courses must be at the upper level.

Transfer students have the following exceptions:

Students who transfer in 31-60 credits musts complete 2 "I" and 2 "G" courses.

Students who transfer in 61 or more credits must complete 1 "I" and 1 "G" course. At least 1 "I" course must be at the upper level.

Associate Degree candidates must complete one "I" course and one "G" course.

Applied Associate Degree candidates must complete one "I" course.

Student Learning Outcomes:

Students will:

- Recognize the significance of information in solving everyday problems.
- Identify a wide variety of information resources (both format and source).
- Identify needed information to solve a given problem or understand an issue.
- Recognize distortion, and other misuses of information.
- Gather, synthesize, analyze, interpret, and evaluate information.
- Use information effectively to address a given problem or issue.
- Present information issues and solutions to others.

Courses: List subject to change

ANH	3260	ENG	3352	HST	4496
ANH	3280	ENG	3356	MTH	3372
ANH	4410	ENG	4401	MU	2220
ANH	4490	GEG	3280	MU	2221
ARH	4480	GEG	3300	MU	2222
BI	4491	HST	2226	NUR	3271
BI	4496	HST	3290	NUR	3361
CHM	4410	HST	3303	NUR	4433
CIS	1103	HST	3307	PHL	4423
CIS	3303	HST	3308	PSC	3330
CIS	4310	HST	3320	PSC	4402
CJA	1100	HST	3330	PSC	4404
COM	1101	HST	3333	PSY	1191
COM	4425	HST	3350	PSY	3330
DIT	2211	HST	3366	PSY	4422
DIT	3300	HST	3377	SOC	3307
DIT	3316	HST	3387	SOC	3308
DIT	4402	HST	3388	SOC	3357
DIT	4420	HST	4401	SPE	3380
ED	3260	HST	4420	SWK	2259
ED	3320	HST	4431	SWK	3308
ELE	3301	HST	4452	TRT	3300
ENG	3281	HST	4471	TRT	3321
				TRT	4480

WRITING ACROSS THE CURRICULUM (WAC)

The Writing Across the Curriculum program helps you become a competent writer through assignments in designated writing courses which require different conventions of purpose and audience, different formats and styles, and different kinds of writing for various disciplines. These writing courses are drawn from all areas of the curriculum and involve students in regular, frequent writing. Writing Across the Curriculum requirements are satisfied by completing ENG 1112WW, ENG 3313W, and three writing designated (W) courses, at least one of which must be an upper-level course.

Transfer students must complete ENG 1112W and ENG 3313W or transfer equivalent writing courses from another institution. Students who transfer in 1-30 credits must complete the normal three additional "W" courses. Students who transfer in 31-60 credits must complete two additional "W" courses (at least one must be at 3260 level or above). Students who transfer in over 60 credits must complete one additional "W" course at the 260 level or above.

Two writing across the curriculum courses are required in addition to ENG 1112W for Associate Degree Programs.

General Education - Professional Portfolio Plan

Statement of Purpose

Mansfield University is dedicated to providing an environment that promotes academic and personal growth as well as intellectual, ethical, and aesthetic values. General Education provides students with the foundation for lifelong learning and to enable them to function as responsible citizens in a rapidly changing world. It is designed to broaden

and deepen students' intellectual growth and awareness. General Education requirements work in conjunction with students' major programs of study to provide expanded knowledge from diverse perspectives outside their central area of study.

Student Requirements – General Education Portfolio

Students seeking a baccalaureate degree from Mansfield University are required to take General Education courses in addition to the required core courses. The distribution of required general education courses are selected from the following five blocks:

Humanities
Languages and Literature
Mathematics
Natural sciences
Social sciences

Students Who Began Their Coursework at Mansfield University

One semester prior to graduation, students who began their coursework at Mansfield University will be required to submit a portfolio of works. Each portfolio must contain five artifacts[1]. The artifacts must come from at least four of the five GE blocks. One artifact may come from a general education course in the core. Taken as a whole, the five artifacts must demonstrate each of the general education outcomes—critical thinking, problem solving, analysis, communication, and an introduction to the principles, substance, and methodology of humanities, language and literature, mathematics, natural sciences, and social sciences.

Transfer Students

Transfer students will submit artifacts on a prorated basis as follows: if transferring in less than $^1/_4$ of GE credits, submit 4 artifacts; if transferring in between $^1/_4$ and $^1/_2$ GE credits, submit 3 artifacts; if between $^1/_2$ and $^3/_4$, submit 2 artifacts; and more than $^3/_4$, submit 1 artifact. At least one of these artifacts must demonstrate critical thinking skills. The following chart illustrates the cover sheet that is to be attached to each artifact in the portfolio.

General Education Program Outcomes

General Education courses represent multiple disciplines and meet the general education requirements. Specifically, general education is designed to develop student competency across the core and general education blocks in the following:

- thinking skills including critical thinking, problem solving, and analysis
- communication
- an introduction to the principles, substance, and methodology of humanities, language and literature, mathematics, natural sciences, and social sciences, in addition to their majors.

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[1] When students complete ENG 3313W, the instructor will submit the written communication artifact. This will serve as artifact #6. The written communication competency is assessed through a comparison of the entry-level English placement test and a writing assignment from ENG 3313W. All transfer students must take ENG 3313W.

General Education Portfolio Cover Sheet

(Complete the information on this form and attach a cover sheet to each artifact in your portfolio)

Student Name: _____ **Student ID Number:** _____
(Print)

General Education Outcomes: (Check at least one)

- ☐ Critical Thinking
- ☐ Analysis
- ☐ Problem Solving
- ☐ Communications

Check the General Education Block: where you did this artifact:

- ☐ Humanities
- ☐ Languages and Literature
- ☐ Mathematics
- ☐ Natural Sciences
- ☐ Social Sciences

Course & Number: (e.g. MA 231-02) _____

Semester: (e.g. SP 2004) _____

Instructor's signature: _____ _____
(Print name) Signature

Send to: Provost Office

Your completed portfolio must:

1. Contain at least four of the five general education blocks;
2. Address each general education outcome at least once.
   EG. A history paper written on World War II fulfills the Humanities block and addresses the outcome of Communication.
3. Have the instructor's signature from the semester when you take the course.

General Education Assessment

Definitions of Program Learning Outcomes

Thinking skills include different types of processing information. Common examples are critical thinking, problem solving, and analysis. The following section defines three types of thinking and offers examples.

Critical Thinking. Students think rationally and critically about those matters that educated people debate. Students recognize and avoid common mistakes in reasoning, identify personal assumptions, challenge assumptions, gather and evaluate evidence from a variety of sources, distinguish different kinds of reasoning, analyze and synthesize and integrate information to draw conclusions. Critical thinking is a broad type of reasoning that involves applying learning in situations and problems.

Examples of Critical Thinking Artifacts

We are flooded everyday with images and messages to consume or buy more. The issue on whether to purchase or not has never been questioned more closely than in recent years. Yet, numerous intellectuals have debated over this divisive issue in modern or history. In your own opinion, are you for or against modern mass consumption? Support your answers with arguments from some of the social critics you have learned.

Both Daniel Boorstin's The Americans: The Democratic Experience and Roland Marchand's Advertising the American Dream are consider classic examples of historical works within the genre of socio-economic or even cultural history. Compare and contrast their different approaches and methodologies in their subject materials. Is there any preference for one or the other and what kind of audiences were the authors targeting?

What do you consider to be the "golden age" of English, that is, its time of greatest and richest ability to express the ideas of its speakers? (an essay test question)

Step away from your individual experiences and examine the unwritten intangible social forces that shape your behavior.

Explain two major theoretical paradigms in social science, their major assumptions, and crucial evidence given in support. Include how these theories are used in everyday life as well as broader society. Choose your favorite and explain why.

Problem Solving. A step-by-step process of defining the problem, searching for information, generating possible solutions, testing hypotheses using appropriate methodology, identifying and evaluating constraints, formulating implementation plans, and establishing success criteria. The goal of problem solving is to find and implement a solution (http://www.nces.ed.gov/npec/evaltests/psinfo.htm).

Examples of Problem Solving Artifacts

Which social science research method is most conducive to study illegal immigration? Explain why you selected that method.

Field Research Report: following the steps of observation, hypothesis forming, testing the hypothesis, and revising the hypothesis, students will conduct field research on some aspect of language as it is used around them. For example, an unusual pronunciation might be part of a speaker's dialect, or it might be a piece of jargon.

Analytical Thinking. The process of breaking down complex information or ideas into simpler parts to understand how the parts relate or are organized. Analytical thinking involves identifying the underlying structure of complex information or ideas. Tasks at the analysis level require the learner to take the material apart and examine the pieces to identify logical errors (point out a contradiction or an erroneous inference), draw relationships between ideas, and/or compare and contrast. Verbs that describe learning outcomes include:

Deduce	break down	relate
Outline	infer	diagram
Illustrate	subdivide	point to (out)

Examples of Analytical Thinking Artifacts

A paper describing overall education policy and specific practices in the United States compared with Japan,

A lab report showing how the functions of x and y are related in a machine,

A report that determines the iron content in Tioga River water,

A test or assignment that asks students to:

Identify the major and minor ideas of ...

How are ___ the same, and how are they different?

List the basic assumptions...

Describe the variety of motives...

Distinguish between theory and facts...

Separate the major and minor themes...

Analytical thinking

1. Between 1860 and 1910, what were the characteristics of industrialization in the United States? What were the economic devices and institutions that facilitated its growth? Discuss some of the better-known entrepreneurs. Finally, how did the growth of big businesses affect American society, its ordinary people, and their workplace?
2. In the post WW II era, many countries in Southeast Asia began to seek independence. What factors spurred their desire for independent rule? In the process of gaining self-rule, what problems did countries such as Malaysia, Singapore, and Indonesia faced? Since gaining independence, how have these countries faired? Why is it that countries such as Singapore and Malaysia have faired much better than Indonesia?
3. Why did Europe "scramble" for Africa in the 1880s? What were their motives for carving out Africa? In doing so, who were the biggest benefactors in this European decision of divide and conquer? What methods were used to ensure the European exploitation of the peoples and resources? You need not discuss every European colony, but illustrate at least two if not three cases to support your essay.
4. Using Erika Friedl's analysis as a model, discuss the role of men in Afghan society. (from non-Western literature)
5. Draw a phrase structure tree of the following sentence. (from English Grammar)
6. Given the population of residents in NYC, explain how you would determine sample size and how would you select who would be in the sample?

Communication

Understands and makes him/herself understood
Conveys information clearly and concisely
Communicates effectively for a variety of purposes
Expresses his/her needs, desires, and opinions
Accesses tools, information, and strategies from a variety of resources
Communicates effectively with diverse audiences

Examples of Communication Artifacts

What do you consider to be the "golden age" of English, that is, its time of greatest development and richest ability to express the ideas of its speakers? (an essay test question)

In the post WW II era, many countries in Southeast Asia began to seek independence. What factors spurred their desire for independent rule? In the process of gaining self-rule, what problems did countries such as Malaysia, Singapore, and Indonesia faced? Since gaining independence, how have these countries faired? Why is it that countries such as Singapore and Malaysia have faired much better than Indonesia?

The communication form can be produced in one or more medium (written, visual, auditory and/or performance) that is appropriate to that specific discipline. The communication form must convey a student's level of understanding and remain consistent with the conventions for that specific mode of communication. Artistic forms and performances must include a written explanation.

Rubrics for General Education Learning Goals

Rubrics are the criteria against which work will be judged. The general education learning goals by definition reflect general abilities and skills (thinking skills, communication, and an introduction of the principles, substance, and methodology of

humanities, language and literature, mathematics, natural sciences, and social sciences). Different rubrics are used for different types of thinking. Evaluators will select the appropriate rubric for the type of thinking illustrated in the artifact.

Rules for General Education

1. All students must complete the core courses (16 credits).
2. ENG 3313W must be passed with a grade of "C-" or better.
3. Bachelor of Music students must complete six credits in each of Groups 1 through 5 for a total of 30 credits in Distribution Group Requirements.
4. A maximum of four credits from the major discipline may be used to fulfill Distribution Groups 1-5. (Mathematics majors are exempt from this rule.)
5. No more than two courses with the same prefix may be used to complete Distribution Groups 1-5.
6. All students must complete at least one laboratory course in the Natural Science Group.
7. All students will complete 3 designated Writing Across the Curriculum (W) courses in addition to the ENG 1112W and ENG 3313W sequence, with the following exceptions:
   - Students who transfer in 31-60 credits must complete two "W" courses
   - Students who transfer in 61 or more credits must complete one "W" course

   At least one "W" course must be at the upper level.
8. All students will complete 3 designated Information Literacy (I) and 3 designated Global Awareness (G) courses, with the following exceptions:
   - Students who transfer in 31-60 credits must complete two "I" and two "G" courses
   - Students who transfer in 61 or more credits must complete one "I" and one "G" course
9. Courses may carry and count for more than one of the "W," "I," or "G" designations.
10. All Honors courses will count in the block appropriate to their content.

Associate Degree Students and General Education

Associate degree-seeking students must complete 11 credits within the core as follows:

ENG 1112W
COM 1101
Fine arts course
One credit of Wellness
First-Year Seminar

All associate degree students must complete the required courses in at least three of the five distribution group areas.

Students seeking the AA degree must earn at least 20 credits within the distribution group areas. Students seeking the AS or AAS degree must earn at least 14 credits within the distribution group areas.

Undergraduate Degree Programs

ACCOUNTING (See Business Administration)

Anthropology (See Social Work, Anthropology, and Sociology)

ART DEGREE PROGRAMS

Offered by the Department of Communication, Theatre and Art
Professor Kutbay
Assistant Professor Whitehouse

The Art Department offers two baccalaureate degrees: B.S.E. in Art Education, B.A. in Art History, and an online M.Ed. in Art Education at the Graduate Level. The department also has certification for Art Educators.

Art Education is structured to guide prospective teachers to meet general education requirements, to develop skills in basic studio areas, and to provide a rich background in art history, aesthetics, theory, psychology, and the philosophy of art education. Upon satisfactory completion of the program, the graduate is qualified to teach art in the elementary and secondary schools. Graduating students must successfully complete the Praxis examination both in general studies and their area of specialization to be certified to teach in Pennsylvania.

The following courses should be taken during the first year:

ARH	1101	Introduction to Art;
PSY	1101	General Psychology;
ART	2240	2-Dimensional Design
ART	2244	3-Dimensional Design
ART	2248	Drawing
		Math and English

Art Education

Incoming freshmen and transfer students must successfully complete an interview and a portfolio review conducted by Art Faculty. Portfolios must be submitted under Art department guidelines (see student handbook or Art Department Web Page www.mansfield.edu). Deadlines are: Fall admittance prior to April 30th; Spring admittance prior to November 15th.

Art Education majors are required to meet the QPA requirements in effect in the Commonwealth of Pennsylvania at the time they are admitted to the professional education program (after completion of 48-semester-hours) at the time of student teaching, and at graduation. Also at this point of admission to the professional education programs, they must also have a negative TB tine test, pass the Act 34 State Police and Act 151 Child Abuse clearances. Students are also required to complete the following academic requirements: six hours of math; three hours of English composition; and three

hours of English Literature and pass the Praxis 1 exam. Education majors must complete all basic studio and methods courses before student teaching.

See The Teacher Education Certification Section, Page 59, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.

PROGRAM REQUIREMENTS: Art Education (B.S.E.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ARH	1101	Introduction to Art	3
PSY	1101	General Psychology	3
ART	2240*	2-Dimensional Design	3
ART	2244	3-Dimensional Design	3
ART	3301	Oil Painting	
		or	3
ART	3261	Waterbase	
ART	3331	Printmaking	3
ART	3351	Jewelry	3
ART	2238	Multicultural Crafts	3
ART	2218	Photography	3
ART	3271	Ceramics	3
ART	2248	Drawing	3
ART	3281	Sculpture	3
ART	3300	Visual Studies	3
ARH	3331	History of Modern Art	3
ART	3365	Computer Art	3
ARE	2211	Intro to Art Education	3
ARE	3390	Art Curriculum and Teaching in Elementary Education	3
ARE	3393	Art Curriculum and Practical Application in Secondary Schools	3
ARE	4400	Student Teaching	12
SPE	3275	Inclusion of Diverse Learners	3
ED	1102	Introduction to Education	3
ED	2205*	Educational Psychology	3
ARE	4403	Art Seminar	2
		Total semester hours	77

Art History

Art history majors acquire a background in the historical and cultural origins of the visual arts, from cave painting to computer art. Some Art History courses include Ancient and Medieval Art, Art of the Renaissance, History of Prints, Oriental Art, History of African-American Art, and Native Arts of the Americas. This program is primarily preparation for graduate school, but with close advisement in selecting courses it also prepares its students for work in galleries, museums, writing in the art field, and other related careers.

The B.A. in Art History is an online degree of 120 credits. These include 30 credits of core courses in Art History, 55 credits of General Education courses, and 35 credits of free electives. The 30 credits of core courses consist of AHR 1101 Introduction to Art, ART 3300 Visual Studies in Aesthetic Experiences, ART 4404 Special Problems in Art, and 21 credits of Art History electives. As part of the B.A. degree in Art History, students are required to do either a minor in any field, or complete any language of choice at a second year

proficiency. Currently the majority of online General Education courses are offered during the summer. Students may supplement their online courses with courses that are offered on campus, or they may opt to transfer in credits from elsewhere as part of their degree program.

PROGRAM REQUIREMENTS: Art History (B.A.): 120 s.h.

ARH	1101	Introduction to Art	3
ART	3300	Visual Studies in Aesthetic Experiences	3
ART	4404	Special Problems in Art	3
ARH	xxxx	Art Electives	21
		Total semester hours	30

Students must complete either two semesters of a second year language proficiency or a minor in any subject.

BIOLOGY DEGREE PROGRAMS

Offered by the Department of Biology
Professors Flesch (chairperson), Kirby, Maris, Soderberg, Sternick
Associate Professors: Hensley
Assistant Professors: Clifford, Stein

The Department of Biology offers three degrees and two concentrations leading to the baccalaureate degree. The department also offers a minor in biology.

Programs leading to the B.S. degree give a solid liberal arts background and a foundation of science courses in botany, zoology, cell biology, ecology, chemistry, physics and mathematics. With close advisement you may concentrate in any one of several areas: botany, physiology, ecology, and cellular biology, among others. A unique feature of all biology degrees is the requirement to complete an undergraduate research project. These programs meet the minimum requirements for medical schools. The biology program is excellent preparation for graduate school. Many biology graduates become technicians in hospitals and research laboratories. Others go into sales positions with medical and pharmaceutical supply companies, while still others find employment in the environmental and ecological fields.

Those students preparing for a career in medicine may meet the minimum requirements for medical, dental, chiropractic, veterinary, and physical therapy schools with proper course selection under the B.S. degree.

Biology
PROGRAM REQUIREMENTS: Biology (B.S.): 120 s.h.
(*courses with asterisk may also satisfy General Education requirements)

BI	1100	Orientation to Biology	1
BI	1110*	Zoology	4
BI	1130*	Botany	4
BI	3310-3319	Choice	
		or	3-4
BI	3330-3339	Choice	
BI	3350	Ecology	4
BI	3351-3359	Choice	3-4

BI	3370	Cell Biology	4
BI	3371-3379	Choice	
		or	2-4
BI	4470-4471	Choice	
BI	3390-3399	Choice	
		or	
BI	4450	Internship	
		or	1-12
BI	4491-4495, 4497	Choice	
BI	4496	Seminar	1
BI	4497	Independent Study	1
BI	3300/4400	Electives	7-11
CHM	1111*	General Chemistry I	4
CHM	1112*	General Chemistry II	4
CHM	3301	Organic Chemistry I	4
CHM	3302	Organic Chemistry II	4
MA	2231*	Calculus I	4
PHY	1191*	Physics I	4
PHY	1192*	Physics II	4
		Total semester hours	63-82

Biology, Cell & Molecular Concentration

The cell and molecular biology concentration is designed to educate students in contemporary biology emphasizing molecular interactions, cell development and functions. This concentration is the primary degree for medical school preparation. Mansfield University has agreements with the Philadelphia College of Osteopathic Medicine and Lake Erie College of Osteopathic medicine to accept up to ten and five students respectively per year if the student meets certain criteria. Also Mansfield University participates in the Pennsylvania State University's Primary Care partnership Program at the College of Medicine-Hershey Medical Center. MU has an affiliation with the Temple University School of Dentistry. This program has a strong emphasis on chemistry. Students learn to manipulate and use a variety of cell and molecular techniques important in present day research. Students selecting this track are qualified to enter the job market in biotechnology, pharmaceuticals, medicine, and the molecular biology of the environment.

PROGRAM REQUIREMENTS: Biology, Cell & Molecular Concentration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	1100	Orientation to Biology	1
BI	1110*	Zoology	4
BI	1130*	Botany	4
BI	3310	Physiology	
		or	3-4
BI	3330	Plant Physiology	
BI	3350	Ecology	4
BI	3370	Cell Biology	4
BI	3371	Microbiology	4

BI	3372	Genetics	3
BI	3373	Genetics Research	2
BI	3374	Immunology	3
BI	3376	Animal Histology and Basic Micro techniques	3
BI	3300/4400	Biology Electives	2-3
BI	4496	Seminar	1
BI	4497	Independent Study	1
CHM	1111*	General Chemistry I	4
CHM	1112*	General Chemistry II	4
CHM	3301	Organic Chemistry I	4
CHM	3302	Organic Chemistry II	4
CHM	3321	Physical Chemistry I	4
CHM	3341	Biochemistry	4
PHY	1191*	Physics I	4
PHY	1192*	Physics II	4
MA	2231*	Calculus I	4
		Total semester hours	71-73

Biology Education

The secondary education (B.S.E.) program prepares the student to enter the teaching profession with certification in both biology and, with proper advisement, general science. Biology education majors are dual advised with the education department. Refer also to the education department information.

See The Teacher Education Certification Section, Page 59, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.

PROGRAM REQUIREMENTS: Biology Education (B.S.E.): 126 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	1100	Orientation to Biology	1
BI	1110*	Zoology	4
BI	1130*	Botany	4
BI	3310	Physiology	4
BI	3350	Ecology	4
BI	3370	Cell Biology	4
BI	3371	Microbiology	4
BI	3372	Genetics	3
BI	4496	Seminar	1
BI	4497	Independent Study	1
CHM	1111*	General Chemistry I	4
CHM	1112*	General Chemistry II	4
CHM	3301	Organic Chemistry I	4
CHM	3302	Organic Chemistry II	4
ED	1102	Introduction to Education	3
ED	2205*	Educational Psychology	3
ED	3260	Assessment in Education	3
ED	3310	Content Area Reading	3
ED	3313	Teaching Secondary Science	3
ED	3320	Observation and Participation	3
ED	4400	Student Teaching	12

ED	4460	Professional Seminar	2
GEG	1111*	Physical Geography	
		or	3
GEG	1122*	Environmental Issues	3
MA	1125*	Introductory Statistics I	3
MA	2231*	Calculus I	4
PHY	1191*	Physics I	4
PHY	1192	Physics II	4
PSY	1101*	Introduction to General Psychology	3
SPE	3275	Inclusion of Diverse Learners	3
ENG	xxxx	A Literature Course	3
		Total semester hours	108

Biology, Environmental Science Concentration

The environmental track is for students interested in environmental issues. Students receive a general overview of the field as well as practical skills. The program is designed to train scientists to look at environmental problems in an interdisciplinary way. Students will receive a solid base in the environmental field as well as related courses in the arts and sciences. Program graduates can expect employment opportunities with state and federal agencies or in the private sector.

PROGRAM REQUIREMENTS: Biology, Environmental Science Concentration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	1100	Orientation to Biology	1
BI	1110*	Zoology	4
BI	1130*	Botany	4
BI	3310-3319		3-4
BI	3330-3339		3
BI	3371-3379		
		or	
		Choice	2-4
BI	4470-4471		
BI	3350	Ecology	4
BI	3351	Limnology	3
BI	3370	Cell Biology	4
BI	3390	Biostatistics and Experimental Design	3
BI	4496	Seminar	1
BI	4497	Independent Study	1
CHM	1111*	General Chemistry I	4
CHM	1112*	General Chemistry II	4
CHM	3301	Organic Chemistry I	4
CHM	3302	Organic Chemistry II	4
GEG	1122*	Environmental Issues	3
GEG/GEL	3340	Map and Air Photo Interpretation	4
MA	2231*	Calculus I	4
PHY	1191*	Physics I	4
PHY	1192*	Physics II	4
	3300/4300	Elective	3

Select Four Courses:			12-14
CHM	3311	Quantitative Analysis (4)	
CHM	3332	Instrumental Analysis (4)	
GEG	3321	Geomorphology (3)	
GEG	3270	Geographic Information Systems (3)	
GEG/GEL	4420	Remote Sensing (3)	
GEL	3330	Hydrology (3)	
		Total semester hours	83-88

Biology, Fisheries

Mansfield University offers the only undergraduate fisheries degree in Pennsylvania and the most complete undergraduate fisheries program in the country. MU fisheries interns and graduates have been placed across the United States, establishing Mansfield as a major center for fisheries education. Graduates are, therefore, very competitive for employment and graduate school opportunities. This B.S. degree program is housed within the Biology Department and provides extensive course work in the three major areas of fisheries science: aquaculture, fisheries biology, and fisheries management. Unique features of the program include a summer internship, field courses, and a required research project. Cooperative education and research agreements with the U.S. Geological Survey and the Pennsylvania Fish and Boat Commission are integral components of the fisheries program at Mansfield University. Graduates of the program meet the requirements for certification as Associate Fisheries Scientists by the American Fisheries Society. With a year of organic chemistry, the fisheries major will have a minor in chemistry. The chemistry minor, Genetics (BI 3372), and Biostatistics and Experimental Design (BI 3390) are highly recommended for fisheries' graduates who plan to attend graduate school. Students wishing to receive American Fisheries Society certification must take a statistics course through advisement.

PROGRAM REQUIREMENTS: Biology, Fisheries (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	1100	Orientation to Biology	1
BI	1110*	Zoology	4
BI	1111	Fish Culture I	3
BI	1112	Fish Culture II	3
BI	1130*	Botany	4
BI	3314	Ichthyology	3
BI	3315	Fish Pathology	3
BI	3350	Ecology	4
BI	3351	Limnology	3
BI	3352	Management of Small Impoundments	3
BI	3353	Management of Streams and Large Impoundments	3
BI	3370	Cell Biology	4
BI	3371	Microbiology	4
BI	3392	Human Dimensions in Fish Management	3
BI	4450	Internship	4
BI	4491	Aquaculture Research	2
BI	4496	Seminar	1
CHM	1111*	General Chemistry I	4
CHM	1112*	General Chemistry II	4

CHM	3311	Quantitative Analysis	4
CHM	3332	Instrumental Analysis	4
MA	2231*	Calculus I	4
PHY	1191*	Physics I	4
PHY	1192*	Physics II	4
PHL	3316	Environmental Ethics	3
		Total semester hours	83

BUSINESS ADMINISTRATION DEGREE PROGRAMS

Offered by the Department of Business and Economics
Professors Kutty, Solan, Yacovissi
Associate Professors Carpenter, Dugan, Gaballa, Ghods, Welch (Chairperson)
Assistant Professor Havalchak

Most aspects of life are touched in some way by the business world: retailing, education, banking services, real estate, health care, and many others. Some of the career choices of Mansfield University Business and Economics graduates are accountants, CPA, CMA, professional salespersons, bank managers, government economists, financial planners, advertising executives, health service administrators, hotel sales and marketing managers, and meeting and conference planners. If these careers sound interesting, the study of Business and Economics at Mansfield University will open up the world of business to you.

The department offers baccalaureate degree programs in business and economics. The blend of general education and professional business education provides students with much needed skills, knowledge, values and ethics needed in today's business environments.

Concentrations within the business administration degree include: Accounting, General Business, International Business, Management, and Marketing. The Accounting emphasis provides students with a strong background in business, as well as in accounting. Accounting students can step into a diverse range of career and graduate school options. Students entering the General Business emphasis are advised to discuss their goals with their academic advisor who will help them choose courses that will prepare them to be competitive in their specific area of business. The International Business emphasis builds understanding and appreciation for the global environment. The Marketing emphasis takes a solid business core as a foundation and adds a variety of marketing courses that prepare students for career opportunities in marketing related disciplines.

There is flexibility built into the design of the four-year degree programs to permit internships and minor studies. There is room to meet the individual needs and interest of students in the course work they select.

The Department offers minors in Accounting, Business Administration, Marketing, Economics, and Travel and Tourism. The Department also has a two-year degree program in Travel and Tourism. The two-year program is designed to be transferable to the four-year track should students decide to pursue the four-year degree.

Business Administration

PROGRAM REQUIREMENTS: Business Administration Programs

All students with a concentration in Accounting, General Business, International Business, Management, or Marketing must take the following core classes:

CORE:

*(*courses with asterisk may also satisfy General Education requirements)*

ACC	1110	Principles of Accounting I	3
ACC	1111	Principles of Accounting II	3
BUS	2230	Management Principles	3
BUS	3330	Marketing	3
BUS	3349	Quantitative Business Analysis	3
BUS	3350	Operations Management	3
BUS	3380	Managerial Finance	3
BUS	4410	Business Law I	3
BUS	4490	Business Policy	3
CIS	2203	Software Business Applications	3
ECO	1101*	Principles of Macroeconomics	3
ECO	1102*	Principles of Microeconomics	3
MA	1125*	Introduction to Statistics I	3
MA	1170*	Fundamentals of Calculus	
		or	3-4
MA	2231*	Calculus I	
SOC	1101*	Introduction to Sociology	3
		Total Semester Hours for Core	45-6

CONCENTRATIONS:

Business Administration, Accounting Concentration (B.S.): 120 s.h.

*(*courses with asterisk may also satisfy General Education requirements)*

ACC	3310	Intermediate Accounting I	3
ACC	3311	Intermediate Accounting II	3
ACC	3320	Advanced Accounting I	3
ACC	3350	Cost Accounting I	3
ACC	3390	Introduction to Federal Tax Accounting	3
ACC	4400	Auditing	3
ECO	3311	Money and Banking	3
Electives - Choose two from:			6
ACC	3314	Automated Accounting Systems	
ACC	3351	Cost Accounting II	
ACC	3380	Topical Seminar	
BUS	3333	International Financial Management and Economics	
BUS	4441	Financial Statement Analysis	
		Total Semester Hours for Concentration	27

Business Administration, General Business Concentration (B.S.) 120 s.h.

Electives: Eighteen hours of 3000 or 4000 level major-related electives	18

Business Administration, International Business Concentration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BUS	4403	Business and American Foreign Policy	
		or	3
PSC/HST	4415	Modern American Diplomacy	
BUS	4422	International Marketing	3
ECO	3333	International Economics	3
BUS	3321	Envrn & Mgt Intrnl Bus	3
BUS	3333	Intrnl Fin Mgt & Eco	3
INTL STUDIES ELECTIVE – (by advisement)			3
		Total Semester Hours for Concentration	18

Business Administration, Management (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BUS	3302	Managerial Decision Making	3
BUS	3360	International Management	3
BUS	4451	Managing Organizational Behavior	3
Electives – Select three courses from the following:			
BUS	3310	Managing Diversity	3
BUS	4415	Marketing Management	3
COM	3360	Organizational Communication	3
PSY	3315	Human Resource Management I	3
PSY	3316	Human Resource Management II	3
		Total Semester Hours for Concentration	18

Business Administration, Marketing Concentration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BUS	4415	Marketing Management	3
BUS	4422	Topical Seminar/International Marketing	3
Electives – Select four courses from the following:			
BUS	3332	Promotion in Marketing (3)	
BUS	3334	Marketing Research (3)	
BUS	3370	Salesmanship (3)	
BUS	4420	Topical Seminar/Marketing for Non-Profit Organizations (3)	
BUS	4421	Topical Seminar/Marketing Channels of Distribution (3)	
BUS	4423	Topical Seminar/Industrial Marketing (3)	
BUS	4424	Topical Seminar/Sales Force Management (3)	
BUS	4425	Topical Seminar/Current Marketing Problems (3)	
		Total Semester Hours for Concentration	18

CHEMISTRY DEGREE PROGRAMS

Offered by the Department of Chemistry and Physics
Professors Ramasamy (chairperson) Davis
Associate Professors Ambrosio, Chester, Ganong, Vayansky
Assistant Professors Carson, Kiessling
Instructor Tandon

The Department of Chemistry and Physics offers four programs that lead to the baccalaureate degree with a major in chemistry. Minors in Chemistry, Physics, and Forensic Science are available as further options.

Chemistry

The B.S. degree in Chemistry is structured after the standards of the American Chemical Society and provides excellent preparation for advanced studies in medicine, dentistry, optometry, patent law, and related professions. Emphasis is placed on organic and inorganic chemistry, mathematics, and general education. Students who elect this degree are prepared to assume careers with food, pharmaceutical, oil, and chemical industries. Chemists are often involved in quality control, research, sales, monitoring employee environments, and agencies requiring analytical skills. Chemistry graduates are very competitive in the retail and wholesale professions. Over half of our chemistry graduates continue on to graduate school.

The B.S. degree in Chemistry also offers a Biochemistry concentration that recognizes the recent growth of the biotechnology industry and attention in all industrial sectors to biological problems. Students receive broad training in traditional areas of chemistry with additional emphasis in the area of cellular and molecular biology. Graduates are well-prepared for a changing job market or for further study in chemistry, biology, or professional disciplines such as medicine, dentistry, or pharmacy. Career opportunities are available in medicine, dentistry, pharmacy, pharmaceutical, biotechnology, food, and cosmetics industries.

The B.S. degree in Chemistry with a nanotechnology concentration is designed for students who want a chemistry education that concentrates on the rapidly growing field of nanotechnology and nanomanufacturing. This concentration requires a one semester nanomanufacturing lab experience at the Penn State Nanofabrication Facility. Some career opportunities for students completing this program include employment in pharmaceutical, biomedical, semiconductor, microelectronic, and optoelectronic industries. This program is excellent preparation for graduate study in solid-state chemistry, materials science, and microelectronics.

The B.S. degree in Chemistry with a forensic science concentration is designed for students who are considering the growing forensic science field. Students receive broad training in chemistry, necessary for students to fully understand the scope and depth of the science and laboratory skill needed to become a forensic scientist. However, specialized courses in forensic science, biology and physics are designed along AAFS standards to give students context in the specifics of the field. Graduates are prepared to begin work in forensic laboratories or to continue training at the graduate level. Due to the generalist nature of the degree, they are fully prepared to continue on in the more traditional training or professions pursued in any of the B.S. chemistry degree concentrations.

Cooperative Education is an opportunity available to junior and senior chemistry majors who are enrolled in any of the B.S. or B.S.E. programs. Students accepted into the program gain valuable career experience, a salary, and up to a maximum of 9 credits toward graduation. To fulfill the requirements of this program, the student usually spends one semester plus one summer on location with a participating industry.

PROGRAM REQUIREMENTS: Chemistry (B.S.): 120 s.h.

All students with a concentration in Chemistry, Biochemistry, Nanotechnology, or Forensic Science must take the following core classes

CORE: 49 s.h.

(*courses with asterisk may also satisfy General Education requirements)

CHM	1111*	General Chemistry I	4
CHM	1112*	General Chemistry II	4
CHM	3301	Organic Chemistry I	4
CHM	3302	Organic Chemistry II	4
CHM	3311	Quantitative Analysis	4
CHM	3321	Physical Chemistry I	4
CHM	3332	Instrumental Analysis	4
CHM	4410	Seminar	1
CHM	4410	Seminar	1
MA	2231*	Calculus I	4
MA	2232*	Calculus II	4
MA	xxxx*	Math Elective (MA 125 or higher)	3
PHY	2210*	General Physics I	4
PHY	2211*	General Physics II	4
		Total Semester Hours for Core	49

CONCENTRATIONS:

Chemistry Concentration: 21 s.h.

(*courses with asterisk may also satisfy General Education requirements)

CHM	3322	Physical Chemistry II	4
CHM	4420	Qualitative Organic Chemistry	3
CHM	4431	Advanced Inorganic Chemistry	4
CHM	xxxx	Chemistry Electives (CHM 3341, 4421, 4432)	6
MA	2233*	Calculus III	4
		Total Semester Hours for Concentration	21

Biochemistry Concentration: 21 s.h.

BI	3370	Cell Biology	4
BI	xxxx	Biology Electives (BI 3310, BI 3371, BI 3372, BI 3374, BI 3375)	6
CHM	3322	Physical Chemistry II	
		or	4
CHM	4431	Advanced Inorganic Chemistry	
CHM	3341	Biochemistry	4
CHM	4420	Qualitative Organic Chemistry	
		or	3

CHM	4421	Advanced Organic Chemistry	
		Total semester hours for Concentration	21

Nanotechnology Concentration 21-22 s.h.

SCI	3270	Nanotechnology Laboratory Experience	18
One of the following courses:			
CHM	3322	Physical Chemistry II	4
CHM	4431	Advanced Inorganic Chemistry	4
CHM	4420	Qualitative Organic Chemistry	4
CHM	4421	Advanced Organic Chemistry	3
		Total Semester Hours for Concentration	21-22

Forensic Science Concentration 24 s.h.

SCI	1104	Introduction to Forensic Science	3
CHM	3264	Chemical Methods in Forensic Science	3
CHM	4420	Qualitative Organic Chemistry	3
PHY	3264	Physical Methods in Forensic Science	3
MA	2233*	Calculus III	4
CHOOSE ONE OF THE FOLLOWING			
CJA	3262	Investigation and Interrogation	3
CJA	3336	Criminalistics	3
CJA	3355	Evidence And Criminal Procedure	3
CHOOSE TWO OF THE FOLLOWING			
CHM	3322	Physical Chemistry II	4
CHM	4431	Advanced Inorganic Chemistry	4
CHM	3341	Biochemistry	4
BI	3370	Cell Biology	4
		Total Semester Hours for Concentration	27

Chemistry Education

This B.S.E. degree leads to certification as a qualified chemistry teacher in secondary schools. In addition, the student receives a sufficiently extensive background to continue on to graduate school for further studies in chemistry. A student who completes the program will graduate with a provisional certificate to teach in the commonwealth of Pennsylvania. The current demand for high school chemistry teachers, both nationwide and in Pennsylvania, is high and the future looks bright for qualified people. In addition, the B.S.E. is the traditional entry-level degree for school administrative positions such as school counselors, principals, superintendents, and other educational specialists. Education and chemistry faculties are involved in advising students in this program.

See The Teacher Education Certification Section, Page 59, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.

PROGRAM REQUIREMENTS: Chemistry Education (B.S.E.): 126 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	3370*	Cell Biology	4
CHM	1111*	General Chemistry I	4
CHM	1112*	General Chemistry II	4
CHM	3301	Organic Chemistry I	4
CHM	3302	Organic Chemistry II	4

CHM	3311	Quantitative Analysis	4
CHM	3321	Physical Chemistry I	4
CHM	3332	Instrumental Analysis	4
CHM	4410	Seminar	1
CHM	4410	Seminar	1
CHM	xxxx	Chemistry Electives (CHM 3322, 3341, 3352, 4420, 4421, 4431, 4432)	6
ED	1102	Introduction to Education	3
ED	2205	Educational Psychology	3
ED	3260	Assessment in Education	3
ED	3310	Content Area Reading and Writing	3
ED	3313	Teaching Secondary Science	3
ED	3320	Observation and Participation	3
ED	4400	Student Teaching	12
ED	4460	Professional Seminar	2
ENG	xxxx	Literature	3
MA	2231*	Calculus I	4
MA	1125*	Introductory Statistics I	
		or	3-4
MA	2232*	Calculus II	
PHY	1191*	Physics I	
		or	4
PHY	2210*	General Physics I	
PHY	1192*	Physics II	
		or	4
PHY	2211*	General Physics II	
PSY	1101*	Introduction to General Psychology	3
PSY	3321*	Adolescent Psychology	3
SPE	3275	Inclusion of Diverse Learners	3
		Total semester hours	99-100

COMMUNICATION DEGREE PROGRAM

Offered by the Department of Communication, Theatre and Art
Associate Professors Carrish-Bulkley, Longoria, Wright, L. (chairperson) Young
Assistant Professors Bernum, Crum, Strom-Mackey
Instructors Mason, Pieper

The Communication program provides students with an extensive background in human communication study. Graduates often seek employment in management, human services, health care, counseling, law or continue to graduate school with the objective of seeking education-based careers. Qualified students are encouraged to participate in the Department's successful internship program.

After the first semester all majors will have a prepared portfolio reviewed by the student's advisor prior to registration for the subsequent semester. Details on portfolio contents can be found in the student department handbook.

PROGRAM REQUIREMENTS: Communication (B.S.): 120 s.h.

COM	2200	Oral Interpretation	3
COM	2203	Voice and Articulation	3
COM	3325	Interpersonal Communication	3
COM	3360	Organizational Communication	3
COM	4400	Communication Theory	3
COM	4401	Persuasion	3
COM	4425	Public Communication	3
COM	4440	Communication Law	3
COM	xxxx	Communication Electives	9
		Total semester hours	33

COMPUTER INFORMATION SCIENCE DEGREE PROGRAMS

Offered by the Department of Mathematics and Computer Information Science
Associate Professors D'Ortona (chairperson), Krantz, Savoye, Schuerman
Professors H. Iseri, Lienhard
Assistant Professors Dietz, Haner, L. Iseri, Junius, Phillips, Tan

The Department of Mathematics and Computer Information Science offers two baccalaureate degree programs in Computer Science, one with a concentration in Computer Science and the other with a concentration in Information Systems. There is also a two-year associate degree program in Information Systems. The B.S. Computer Science concentration focuses on the techniques and mathematical aspects of computing. The requirements are sufficient for majors to declare a minor in mathematics without any additional coursework.

The B.S. Information Systems concentration focuses on the system and business aspects of computing. Many students also declare a business-related minor or, with a modest number of additional courses, complete a dual major in Business Administration.

The A.S. Information Systems program also focuses on the system and business aspects of computing and is designed to let students easily switch to the B.S. Information Systems degree program.

There are three minors available in Computing: Computer Science, Information Systems, and General Computing. Students who major in one concentration can minor in the other with some additional course work. Also, students majoring in Computer Science may choose to do a dual major with Information Systems. Students majoring in Information Systems may choose to do a dual major with a program in the Business and Economics Department. These dual majors and major/minor strategies can be valuable assets when entering the job market.

PROGRAM REQUIREMENTS: Computer & Information Science, Computer Science Concentration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

CIS	1104	Computer Science I	3
CIS	2204	Computer Science II	3
CIS	2206	Business Programming Concepts I	3
CIS	3301	Data Structures	3
CIS	3306	Business Programming Concepts II	3

CIS	3325	Operating Systems	3
CIS	3330	Computer Organization	3
CIS	3335	Assembly Language Programming	3
CIS	3340	Database Systems	3
CIS	3390	Networking I	3
CIS	4490	Networking II	3
XXX	xxxx	Major Related Electives/3000 or higher	12
MA	2231*	Calculus I	4
MA	2232*	Calculus II	4
MA	3260*	Discrete Structures	3
MA	3314*	Applied Probability and Statistics	3
MA	2/3/4000*	Math Electives	6
		Total semester hours	65

PROGRAM REQUIREMENTS: Computer & Information Science, Information Systems Concentration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ACC	1110	Principles of Accounting I	3
ACC	1111	Principles of Accounting II	3
ACC	xxxx	Accounting Elective (3000 level or higher)	3
BUS	1130	Intro to Business & Management	
		Or	3
BUS	2230	Management Principles	
CIS	1104	Computer Science I	3
CIS	2204	Computer Science II	3
CIS	2206	Business Programming Concepts I	3
CIS	3301	Data Structures	3
CIS	3303	Web Site Design	3
CIS	3306	Business Programming Concepts II	3
CIS	3308	Operations Research	
		Or	3
BUS	3350	Operations Management	
CIS	3310	Systems Analysis	3
CIS	3330	Computer Organization	3
CIS	3340	Database Systems	3
CIS	3390	Networking I	3
CIS	4401	Management Information Systems	3
XXX	xxxx	Major Related Electives (3000 level or higher)	9
MA	1125*	Introductory Statistics	
		Or	3
MA	3314*	Applied Probability and Statistics	
MA	1129*	Finite Mathematics	
		Or	3
MA	3260*	Discrete Structures	
		Or	
MA	3280*	Linear Algebra and Matrix Theory	

MA	1170*	Fundamentals of Calculus	
		Or	3-4
MA	2231*	Calculus I	
		Total semester hours	66-67

An associate degree in Computer Information Systems is available.

PROGRAM REQUIREMENTS: Computer Information Systems (A.S.): 60 s.h.

(*courses with asterisk may also satisfy General Education requirement)

ACC	1110	Introduction to Accounting I	3
ACC	1111	Introduction to Accounting II	3
BUS	2230	Management Principles	3
CIS	1102	Visual BASIC	
		Or	3
CIS	1103*	Introduction to Microcomputers	
CIS	1104	Computer Science I	3
CIS	2203	Business Software Applications	3
CIS	2204	Computer Science II	3
CIS	3303	Web Site Design	3
CIS	3000/4000	Computer Information Systems Electives	6
ECO	1101*	Principles of Macroeconomics	
		Or	3
ECO	1102*	Principles of Microeconomics	
MA	1125*	Introduction to Statistics	3
PHL	2230*	Introduction to Logic	3
		Total semester hours	39

CRIMINAL JUSTICE ADMINISTRATION DEGREE PROGRAMS

Offered by the Department of Criminal Justice Administration
Professor Ryan
Associate Professor Robarge (chairperson)
Assistant Professor Thornsley
Instructors: Judge John Leete, Judge John Mott, and Sergeant Bruce Stayments

The Department of Criminal Justice Administration offers programs of study leading to the following degrees: B.S. in Criminal Justice Administration, A.S. in Criminal Justice Administration, and a minor. CJA provides a systems-based background with a core curriculum covering the criminal justice areas of law enforcement, courts, corrections and juvenile delinquency.

Depending on a particular career interest, courses may also be selected from the following areas: police administration, investigation and interrogation, criminalistics, private security, organized crime, criminology, criminal law, serial murder, organized crime, white collar crime and juvenile justice administration.

Upon departmental approval, internships can be taken at federal, state, or local criminal justice agencies anywhere in the United States.

Career areas: Our CJA graduates are employed by U.S. Immigration, DEA, FBI, Secret Service and U.S. Marshals Office and Federal Bureau of Prisons. Numerous graduates work in state and municipal law enforcement agencies, correctional facilities, probation, parole, juvenile justice, and private security settings. Select graduates have also been successful in graduate school and law school.

PROGRAM REQUIREMENTS: Criminal Justice Administration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

CJA	1100	Introduction to Criminal Justice	3
CJA	2200	Survey of Policing	3
CJA	2201	Survey of Corrections	3
CJA	3324	Judicial Criminal Process	3
CJA	3395	Delinquency and the Criminal Justice System	3
CJA	4490	Senior Seminar	3
CJA	xxxx	Criminal Justice Administration Electives	21
PSC	xxxx	Political Science Elective	3
PSY	xxxx	Psychology Elective	3
SOC	xxxx	Sociology Elective	3
CIS	1103	Intro to Microcomputers	3
		Total semester hours	51

PROGRAM REQUIREMENTS: Criminal Justice Administration (A.S.): 61 s.h.

CJA	1100	Introduction to Criminal Justice	3
CJA	2200	Survey of Policing	3
CJA	2201	Survey of Corrections	3
CJA	xxxx	Major Related Electives	12
PSC	xxxx	Political Science Elective	3
PSY	xxxx	Psychology Elective	3
SOC	xxxx	Sociology Elective	3
		Total semester hours	30

EARTH AND SPACE SCIENCE EDUCATION DEGREE PROGRAMS

Offered by the Department of Geography and Geology
Professor Dodson (chairperson)
Associate Professors Darby, King, Thorne

The B.S.E. in earth and space science prepares students for teaching at the middle to high school level.

See The Teacher Education Certification Section, Page 59, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.

PROGRAM REQUIREMENTS: Earth and Space Science Education (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

AST	1105*	Exploration of the Solar System	
		or	3
AST	1106*	One Possible Universe	
BSC	1101*	General Biology	4
CHM	1111*	General Chemistry I	4
CHM	1112*	General Chemistry II	4
ED	1102	Introduction to Education	3
ED	2205*	Educational Psychology	3
ED	3260	Assessment in Education	3
ED	3310	Content Area Reading and Writing	3
ED	3313	Teaching Secondary Science	3
ED	3320	Observation and Participation – Secondary	3
ED	4400	Student Teaching	12
ED	4460	Professional Seminar	2
GEG	1111*	Physical Geography	3
GEG	1122*	Environmental Issues	3
GEG	3312	Weather and Climate	3
GEG/GEL	3290	Map/ Air Photo Interpretation	4
GEL	1102*	Environmental Geology	3
GEL	1121*	Physical Geology	3
GEL	3322	Historical Geology	3
GEL	3361	Mineralogy/Petrology	3
MA	xxxx*	Math Electives	6
PSY	1101*	Introduction to General Psychology	3
SCI	1107*	Macro Physical Science	3
SCI	1108*	Micro Physical Science	3
SPE	3275	Inclusion of Diverse Learners	3
Select Two Courses:			6
GEG	4415	Special Problems in Geography (3)	
GEG/GEL	3321	Geomorphology (3)	
GEG/GEL	4420	Remote Sensing (3)	
GEL	3330	Hydrology (3)	
BI	3354	Marine Biology (3)	
		Total semester hours	96

ECONOMICS DEGREE PROGRAMS

Offered by the Department of Business and Economics
Professors Kutty, Solan, Yacovissi
Associate Professors Carpenter, Gaballa, Ghods, Mitchell, Welch (Chairperson)
Assistant Professor Havalchak

The Economics Program is designed to provide students with a strong background in Economics theory, applications and qualitative methods. Students can then utilize eighteen semester hours of major related electives to customize their program of studies to meet individual needs or to choose the Business or Finance concentration.

PROGRAM REQUIREMENTS: Economics (B.S.) 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ECO	1101*	Principles of Macroeconomics	3
ECO	1102*	Principles of Microeconomics	3
ECO	3301	Intermediate Macroeconomic Theory	3
ECO	3302	Intermediate Microeconomic Theory	3
ECO	3305	Econometrics	3
ACC	1110	Principles of Accounting I	3
ACC	1111	Principles of Accounting II	3
BUS	2230	Management Principles	3
BUS	3330	Marketing	3
BUS	3380	Managerial Finance	3
MA	1125*	Introduction to Statistics I	3
MA	1170*	Fundamental Concepts of Calculus	
		or	3-4
MA	2231*	Calculus	
			36-37
Economics Electives			15
Business Electives			6
		Total semester hours	57-58

ELEMENTARY EDUCATION AND EARLY CHILDHOOD DEGREE AND CERTIFICATION PROGRAMS

Offered by the Department of Education and Special Education
Professors: Cleland, Straub, Brucklacher, Burns (chairperson)
Associate Professors: Benjamin, Fuller, Floyd (assistant chairperson), Lucero
Assistant Professors: Carico, Dale, Hammann, Minetola, Smith, Werner-Burke (assistant chairperson)
Instructors: Moore

CERTIFICATION REQUIREMENTS: Mansfield University teacher education programs are approved by the Pennsylvania Department of Education (PDE) and nationally accredited by the National Council for Accreditation of Teacher Education (NCATE).

Candidates for teaching certification in Pennsylvania must meet state requirements described in Chapter 354 regulations. A description of requirements, policies, and procedures for teacher certification can be found in the catalog section entitled, "Teacher Education Certification." See page 59.

Elementary Education

The elementary education program at Mansfield prepares students for elementary teaching. The program is organized around the teacher education theme, "Teacher as Reflective Decision-Maker," and students learn to make instructional decisions that are grounded in accepted educational theory, research and practice. Students in the program learn to plan instruction based on knowledge of content and their students, design classroom environments that promote learning, deliver instruction in effective and varied ways, and perform the professional responsibilities of teachers. The elementary education program features field experiences in schools throughout all four years of study culminating in student teaching in the senior year. A particular area of emphasis in the elementary education program is on the uses of children's literature to enhance elementary teaching in all curricular areas. Many education majors also pursue graduate studies after graduation.

There are three program options within the elementary education major. Students may elect to complete the elementary education degree program (120 credits) or complete the elementary education degree program with second certification in early childhood education (126 credits) or special education (135 credits). In addition to the courses of study, students must also complete all state required testing and other certification requirements in order to be recommended for teaching certification. See the catalog section entitled, "Teacher Education Certification" on Page 59 for further details.

PROGRAM REQUIREMENTS: Elementary Education (B.S.E.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)
(**pre-gate course – see "Teacher Education Certification" section)

PSY	1101*	Introduction to General Psychology	3
ED	1102**	Introduction to Education	3
ED	2205**	Educational Psychology	3
ELE	2220**	Child Development	3
ED	3260	Assessment in Education	3
SPE	3275	Inclusion of Diverse Learners	3
ELE	3301	Observation and Participation - Elementary	3
ELE	3383	Teaching Elementary Reading and Literature I	3
ELE	3384	Teaching Elementary Mathematics	3
ELE	3386	Teaching Elementary Social Studies	3
ELE	3387	Teaching Elementary Science	3
ELE	3391	Behavioral, Social, and Emotional Issues	3
ELE	3395	Creative Experiences in Elementary Teaching	3
ELE	4403	Teaching Elementary Language Arts	3
ELE	4425	Teaching Elementary Reading and Literature II	3
ELE	4400	Student Teaching	12
ELE	4460	Professional Seminar	2
		Total Semester Hours	59

Early Childhood Education

Students interested in early childhood education major in elementary education and earn an elementary education degree, but they are prepared to apply for certification in both early childhood (N-3) and elementary (K-6) in this 126 credit program. This program combines coursework in elementary education with additional focused courses in teaching young children, ages 3 through 8.

In the early childhood courses there is an emphasis on a cooperative, hands-on approach to helping children learn. Important early childhood topics include: child development, a healthy safe learning environment, developmentally appropriate curriculum, guiding children's behavior, family relationships, cultural and individual diversity, and professionalism. The early childhood and elementary program features field experiences throughout all four years, culminating in student teaching. Graduates of the program may pursue teaching positions in either preschool or elementary grades or teacher or director positions in child care centers. Many education majors also pursue graduate studies after graduation.

See The Teacher Education Certification Section, Page 59, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.

PROGRAM REQUIREMENTS: Elementary Education (B.S.E.) with second certification in Early Childhood Education: 126 s.h.

(*courses with asterisk may also satisfy General Education requirements)
(**pre-gate course – see "Teacher Education Certification" section)

PSY	1101*	Introduction to General Psychology	3
ED	1102**	Introduction to Education	3
ELE	1150**	Introduction to Early Childhood	3
ED	2205**	Educational Psychology	3
ELE	2220**	Child Development	3
ED	2260	Assessment in Education	3
ELE	3263	Preschool Curriculum Ages 3-5	3
SPE	3275	Inclusion of Diverse Learners	3
ELE	3301	Observation & Participation – Elementary	3
ELE	3362	Emerging Literacy	3
SPE	3370	Early Childhood Disabilities	3
ELE	3383	Teaching Elementary Reading and Literature I	3
ELE	3384	Teaching Elementary Mathematics	3
ELE	3386	Teaching Elementary Social Studies	3
ELE	3387	Teaching Elementary Science	3
ELE	3391	Behavioral, Social, and Emotional Issues	3
ELE	3395	Creative Experiences in Elementary Teaching	3
ELE	4403	Teaching Elementary Language Arts	3
ELE	4405	Early School Curriculum Ages 6-8	3
ELE	4425	Teaching Elementary Reading and Literature II	3
ELE	4400	Student Teaching	12
ELE	4460	Professional Seminar	2
		Total Semester Hours	74

Inclusive Elementary and Special Education

This curriculum option to earn a second certification is available to students majoring in either elementary education or special education. Although students must apply for admission to either elementary education or special education and earn just one degree, they complete a combined set of courses that prepares them to apply for teacher certification in both elementary (K-6) and special education (K-12). As school classrooms have been changing, more special education students are being educated alongside their same-age peers. Teachers need knowledge and skills in adapting instruction to meet the educational needs of all of their students. The 135 credit hour inclusive elementary and special education curriculum option features essential courses in both elementary and special education. Students learn to plan instruction, design effective classroom environments, teach and adapt instruction in effective ways, assess student learning, and perform professional responsibilities as both regular and special educators. Students completing the program student teach both in elementary education and special education assignments. Graduates of the program may pursue teaching positions in either elementary or special education. Many education majors also pursue graduate studies after graduation.

See The Teacher Education Certification Section, Page 59, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.

PROGRAM REQUIREMENTS: Elementary Education (B.S.E.) with second certification in Special Education: 135 s.h.

(*courses with asterisk may also satisfy General Education requirements)
(**pre-gate course – see "Teacher Education Certification" section)

SPE	1101**	Introduction to Special Education	3
PSY	1101*	Introduction to General Psychology	3
ED	1102**	Introduction to Education	3
ED	2205**	Educational Psychology	3
ELE	2220**	Child Development	3
SPE	3270**	Mentally and Physically Disabled	3
SPE	3275	Inclusion of Diverse Learners	3
SPE	3280	Children in Need of Emotional Support	3
SPE	3290	Learning Disabilities	3
SPE	3300	Curriculum Development Adjustment	3
ELE	3301	Observation & Participation – Elementary	3
ELE	3383	Teaching Elementary Reading and Literature I	3
ELE	3384	Teaching Elementary Mathematics	3
ELE	3386	Teaching Elementary Social Studies	3
ELE	3387	Teaching Elementary Science	3
SPE	3351	Behavior Management	3
SPE	3370	Early Childhood Disabilities	3
SPE	3380	Assessment in Special Education	3
SPE	3390	Methods for Individuals with Mild Disabilities	3
ELE	3395	Creative Experiences in Elementary Teaching	3
ELE	4403	Teaching Elementary Language Arts	3
ELE	4425	Teaching Elementary Reading and Literature II	3
SPE	4440	Methods for Individuals with Moderate/Severe Disabilities	3
ELE	4400	Student Teaching	12
ELE	4460	Professional Seminar	2
		Total Semester Hours	83

ENGLISH DEGREE PROGRAMS

Offered by the Department of Languages and Literature
Professors Pifer, Sanders (chairperson), Sornberger
Associate Professors Barton, Blanco, Doerksen, Harris, Holtman, Murphy, Rashidi, Sullivan-Blum, Ulrich, Washington
Assistant Professors Arango-Keeth, Keeth, Oyallon

Students majoring in English have the opportunity to study literature and practice various modes of writing to help them discover and articulate their ideas as completely and cogently as possible. Courses offered for the major emphasize critical thinking and problem solving as essential parts of the composing and interpreting process. Students pursuing the English curriculum receive training in the technique of literary analysis and are offered a broad background in the major and formal developments of English and American literature and language. In addition, students are provided with an intensive study of selected authors of diverse ethnic and cultural backgrounds and are introduced to major historical periods.

Students may pursue either a B.A. (Liberal Arts) or B.S.E. (Secondary English Education) program. The programs are designed to afford students an extensive exposure to the ideas, experiences, and forms of literary expression. Such a background in the analysis and interpretation of literature provides the B.A. major with a strong basis for further graduate study in literature, as well as for careers in law, public relations, editing, communications, civil service, industry, and library science. The background in literature and analysis and work in the theory of writing coupled with professional studies provides the English B.S.E. major with a strong basis for a career in teaching English in a secondary school. (See The Teacher Education Certification Section, Page 59, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.)

English B.A. and B.S.E. students will compile a portfolio of their written work to serve as evidence of their progress through the English curriculum. The portfolios will consist of five essays: one from ENG 1130: Introduction to Literary Studies; two from different upper division ENG courses; a substantial revision of one of these three essays (to be completed as required in ENG 3333); and the research paper from ENG 4401: Senior Seminar in Literary Studies. Students may also choose to include essays from their minor programs, such as Creative Writing or Women's Studies, in addition to the five required essays.

The English department also offers three minors: Creative Writing, English Literature, and Women's Studies. Students in the English B.A. and B.S.E. programs must complete study of a foreign language through the 202 level. In addition, they may wish to complete a minor in Creative Writing, or Women's Studies as a way of adding a content emphasis to their undergraduate course of study.

In planning a course of study, English majors must consult with their English faculty advisor on a regular basis. ENG 1130 Introduction to Literary Studies should be completed during the freshman year.

PROGRAM REQUIREMENTS: English Major, (B.A.): 120 s.h.

Core Requirements: 12 credits

ENG	1130	Introduction to Literary Studies	3
ENG	3333	Advanced Writing for English Majors	3
ENG	3352	Shakespeare	3
ENG	4401	Seminar in Literary Studies	3

Distribution Requirements: 27 credits (at least 6 credits in pre-1800 literature)

ENG	3268 or 3269	British Survey I or II	3
ENG	3278 or 3279	American Survey I or II	3
Choose one British Period Course			3
ENG	3350	Old and Middle English Literature	
ENG	3351	English Renaissance Literature	
ENG	3356	Eighteenth Century British Literature	
ENG	3359	Nineteenth Century British Literature	
ENG	3360	Twentieth Century British Literature	
Choose one American Period Course			3
ENG	3362	American Romanticism	
ENG	3363	American Realism and Naturalism	
ENG	3364	Twentieth Century American Literature	
Choose one World/Minority Course			3
ENG	3305	Comparative Literature	
ENG	3307	Literature in English from Around the World	
ENG	3326	Women's Literature	
ENG	3327	African American Literature	
ENG	3328	Lesbian and Gay Literature	
ENG	3376	Major Genre course	
	or	(repeatable to 9 cr.)	3
ENG	3385	Major Author course	
		(repeatable to 9 cr.)	
ENG	xxxx	Electives (ENG 225, 226, 281 or any of the department's upper division courses)	9
		Total Semester Hours	36

PROGRAM REQUIREMENTS: English Education Major, (B.S.E.):120 s.h.
(*courses with asterisk may also satisfy General Education requirements)

Core Requirements: 21 s.h.

ENG	1130	Introduction to Literary Studies	3
ENG	2225	English Grammar	3
ENG	2226	History of the English Language	3
ENG	3324	Composition Theory and Practice	3
ENG	3333	Advanced Writing for English Majors	3
ENG	3352	Shakespeare	3
ENG	4401	Seminar in Literary Studies	3

Distribution Requirements: 18 credits (at least 6 credits in pre-1800 literature)

ENG	2268 or 2269	British Survey I or II	3
ENG	2278 or 2280	American Survey I or II	3
Choose one British Period Course:			3
ENG	3350	Old and Middle English Literature	
ENG	3351	English Renaissance Literature	
ENG	3356	Eighteenth Century British Literature	
ENG	3359	Nineteenth Century British Literature	
ENG	3360	Twentieth Century British Literature	
Choose one American Period Course:			3
ENG	3362	American Romanticism	
ENG	3363	American Realism and Naturalism	
ENG	3364	Twentieth Century American Literature	
Choose one World/Minority Course:			3
ENG	3305	Comparative Literature	
ENG	3307	Literature in English from Around the World	
ENG	3326	Women's Literature	
ENG	3327	African American Literature	
ENG	3328	Lesbian and Gay Literature	
ENG	3376	Major Genre course	
	or	(repeatable to 9 cr.)	3
ENG	3385	Major Author course	
		(repeatable to 9 cr.)	

Education Related Classes: 41 s.h.

ED	1102	Introduction to Education	3
ED	2205*	Educational Psychology	3
ED	3260	Assessment in Education	3
ED	3310	Content Area Reading and Writing	3
ED	3312	Teaching Secondary English Language Arts	3
ED	3320	Observation and Participation – Secondary	3
ED	4400	Student Teaching	12
ED	4460	Professional Seminar	2
HST	2201*	American History Through the Civil War	
		or	3
HST	2202*	American History - Reconstruction to the Present	
PSY	1101*	Introduction to General Psychology	3
SPE	3275	Inclusion of Diverse Learners	3
		Total Semester hours	83

FRENCH DEGREE PROGRAMS

Offered by the Department of Languages and Literature
Professors Pifer, Sanders (chairperson), Sornberger
Associate Professors Barton, Blanco, Doerksen, Harris, Holtman, Murphy, Rashidi, Sullivan-Blum, Ulrich, Washington
Assistant Professors Arango-Keeth, Keeth, Oyallon

The Languages and Literature Department offers B.A. and B.S.E. degrees in French. (See The Teacher Education Certification Section, Page 59 , for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.)The opportunity to complete basic through intermediate Russian is also available. By graduation students will have taken at least 34 semester hours in their foreign language major. These include courses in structure, phonetics and pronunciation, culture and civilization, and literature. Some students complete dual majors and many opt for minors; the latter are available in French, German, Spanish, and Latin American Studies, all of which can prove to be an employment advantage. This is only natural in an ever more interdependent world where the ability to function in international communications is at a premium. The influence of Hispanic culture is growing in the U.S. while French is still spoken in many countries and German has wide application, especially in Europe.

We strongly encourage students to participate in Study Abroad programs and believe that such participation should be part of the preparation of all aspiring foreign language teachers. But the benefits accrue as well to others who avail themselves of such an opportunity: they not only have a better understanding of other cultures but are in a stronger position to use the knowledge they have acquired in the pursuit of their careers. To date, students have taken part in programs in Ecuador, France, Germany, Mexico, Spain and Russia. Mansfield University has an exchange program with Volgograd State University in Russia, with Freidrich-Schiller Universität in Germany, and has initiated a study abroad program with the Universidad Nacional in Costa Rica.

The foreign language laboratory has booths where students practice listening, comprehension and speaking skills. This facility is also equipped with several computer stations and has satellite receiver capability. In classrooms too, videos, slides, and maps are presented in various courses to enhance the learning/cultural environment and help provide a background for the appropriate language.

Foreign Language study is useful or necessary in various careers in government agencies, and provides an expertise often called upon in many areas of business, travel and tourism, journalism, criminal justice administration, geography, history, communications, political science, social work, and education.

The Languages and Literature Department also offers minors in French, German, Spanish and Latin American Studies.

PROGRAM REQUIREMENTS: French (B.A.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

FR	2201*	Intermediate French I	3
FR	2202*	Intermediate French II	3
FR	2205*	Phonetics and Pronunciation	1
FR	3300*	Conversational French and Civilization	3
FR	3320*	Advanced French Structure	3

FR	3330*	Survey of French Literature I	3
FR	3331*	Survey of French Literature II	3
FR	xxxx	French Electives	15
		Total semester hours	34

PROGRAM REQUIREMENTS: French Education (B.S.E.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ED	1102	Introduction to Education	3
ED	2205*	Educational Psychology	3
ED	3260	Assessment in Education	3
ED	3310	Content Area Reading and Writing	3
ED	3311	Teaching Secondary Foreign Language	3
ED	3320	Observation and Participation - Secondary	3
ED	4400	Student Teaching	12
ED	4460	Professional Seminar	2
FR	2201*	Intermediate French I	3
FR	2202*	Intermediate French II	3
FR	2205*	Phonetics and Pronunciation	1
FR	3300*	Conversational French and Civilization	3
FR	3320*	Advanced French Structure	3
FR	3330*	Survey of French Literature I	3
FR	3331*	Survey of French Literature II	3
FR	xxxx	French Electives	15
HST	2201*	American History through the Civil War	
		or	3
HST	2202*	American History- Reconstruction to the Present	
PSY	1101*	Introduction to General Psychology	3
SPE	3275	Inclusion of Diverse Learners	3
		Total semester hours	75

GEOGRAPHY and GEOLOGY DEGREE PROGRAMS

Offered by the Department of Geography and Geology
Professor Dodson (chairperson)
Associate Professors Darby, King, Thorne

Geography is a broad academic discipline that integrates the physical and social sciences. It studies the nature of, and relationships between, the natural and cultural aspects of our world. Topics such as current environmental issues, cultural differences, computer cartography, geographic information systems (GIS), and planning are all studied by geographers.

Where things are located has always been of interest to geographers. But the more important and interesting question is, "Why are they where they are?" Pursuing the answer leads to new insights, both academic and applied. An especially pertinent example is the increasing use of geographic information systems (GIS) to help understand our world.

Majors in geography earn a Bachelor of Science degree with optional concentrations in Environmental Science, Regional Planning and Mapping Technology. Thus one can tailor a program to individual needs and interests. Graduates from these programs pursue careers in government and industry, or continue their education by entering graduate school. In addition, we offer a two-year Associate of Science degree in Mapping Technology for those interested in developing new skills or in refining existing ones. Minors in geography, geology, and regional planning are also available and can provide important knowledge and skills to students majoring in related fields.

Want to become a teacher? Our department also houses the content-area portion of the Earth and Space Science program. (See Earth and Space Science Education Degree Program in this catalog.)

PROGRAM REQUIREMENTS: Geography (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

GEG	1101*	World Regional Geography	3
GEG	1102*	Human Geography	3
GEG	1111*	Physical Geography	3
GEG	1122*	Environmental Issues	3
GEG	3270	Geographic Information Systems	3
GEG	3280	Cartography	4
GEG	3290	Map/Air Photo Interpretation	4
GEG	xxxx	Geography Electives (upper level)	18
		Total semester hours	41

PROGRAM REQUIREMENTS: Geography, Environmental Science Concentration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	3350	Ecology	
		Or	3-4
BI	3351	Limnology	
CHM	1101*	Introductory Chemistry	4
CHM	1102*	Organic and Biochemistry	4
GEG	1101*	World Regional Geography	3
GEG	1102*	Human Geography	3
GEG	1111*	Physical Geography	3
GEG	1122*	Environmental Issues	3
GEG	3280	Cartography	4
GEG	3290	Map/Air Photo Interpretation	4
GEG	3300	Geographic Research	2
GEG	3312	Weather and Climate	3
GEG	3364	Geostatistics	3
GEG	4465	Seminar in Environmental Science	1
GEG	xxxx	Geography Electives (upper level)	3
GEL	1102*	Environmental Geology	3
RPL	1102*	Introduction to Regional Planning	3
Select four of the following courses:			12-13
BI	3331	Local Flora (3)	

BI	3350	Ecology (4)	
		or	
BI	3351	Limnology (3)	
ENG	3332*	Nature Writing (3)	
GEG	3321	Geomorphology (3)	
GEG	4415	Special Problems in Geography (3)	
GEG	4420	Remote Sensing (3)	
GEG	4496	Internship (3)	
GEL	3330	Hydrology (3)	
RPL	3342	Land Use Policy (3)	
RPL	3380	Planning Seminar (3)	
HPE	3340	First Aid/CPR (3)	
		Total semester hours	61-62

PROGRAM REQUIREMENTS: Geography, Mapping Technology Concentration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

GEG	1101*	World Regional Geography	3
GEG	1102*	Human Geography	3
GEG	1111*	Physical Geography	3
GEG	3270	Geographic Information Systems	3
GEG	3280	Cartography	4
GEG	3290	Map/Air Photo Interpretation	4
GEG	3300	Geographic Research	2
GEG	3364	Geostatistics	3
GEG	4420	Remote Sensing	3
GEG	4430	Modern Cartographic Techniques	3
GEG	4431	Seminar in Cartographic Programming	1
GEG	xxxx	Geography Electives	6
Select two of the following courses			6
CIS	1102	Visual Basic (3)	
CIS	1104	Computer Science I (3)	
ENG	2230	Writing for Business (3)	
ENG	3330	Technical Writing (3)	
GEG	4496	Internship (3)	
GEG	3345	Web Based Cartography (3)	
ART	2240	2-D Design (3)	
ART	3365	Computer Art (3)	
RPL	3380	Planning Seminar (3)	
		Total Semester Hours	44

PROGRAM REQUIREMENTS: Geography, Regional Planning Concentration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

GEG	1101*	World Regional Geography	3
GEG	1102*	Human Geography	3
GEG	1111*	Physical Geography	3
GEG	3270	Geographic Information Systems	3
GEG	3280	Cartography	4

GEG	3290	Map/Air Photo Interpretation	4
GEG	3300	Geographic Research	2
GEG	3364	Geostatistics	3
GEG	3365	Urban/Economic Geography	3
GEG	4430	Modern Cartographic Techniques	3
RPL	1102	Introduction to Regional Planning	3
RPL	3342	Land-Use Policy	3
RPL	3380	Planning Seminar	3
RPL	4496	Planning Internship	6
		Total semester hours	46

PROGRAM REQUIREMENTS: Geography/Mapping Technology (A.S.): 60 s.h.

(*courses with asterisk may also satisfy General Education requirements)

GEG	1101*	World Regional Geography	3
GEG	1102*	Human Geography	3
GEG	1111*	Physical Geography	3
GEG	3270	Geographic Information Systems	3
GEG	3280	Cartography	4
GEG	3290	Map/Air Photo Interpretation	4
GEG	3364	Geostatistics	3
GEG	4430	Modern Cartography	3
GEG	4431	Seminar in Cartographic Programming	1
		Total semester hours	27

GERMAN DEGREE PROGRAMS

Offered by the Department of Languages and Literature
Professors Pifer, Sanders (chairperson), Sornberger
Associate Professors Barton, Blanco, Doerksen, Harris, Holtman, Murphy, Rashidi, Sullivan-Blum, Ulrich, Washington
Assistant Professors Arango-Keeth, Keeth, Oyallon

The Languages and Literature Department offers B.A. and B.S.E. degrees in German. (See The Teacher Education Certification Section, Page 59, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.) The opportunity to complete basic through intermediate Russian is also available. By graduation students will have taken at least 34 semester hours in their foreign language major. These include courses in structure, phonetics and pronunciation, culture and civilization, and literature. Some students complete dual majors and many opt for minors; the latter are available in French, German, Spanish, and Latin American Studies, all of which can prove to be an employment advantage. This is only natural in an ever more interdependent world where the ability to function in international communications is at a premium. The influence of Hispanic culture is growing in the U.S. while French is still spoken in many countries and German has wide application, especially in Europe.

We strongly encourage students to participate in Study Abroad programs and believe that such participation should be part of the preparation of all aspiring foreign language teachers. But the benefits accrue as well to others who avail themselves of such an opportunity: they not only have a better understanding of other cultures but are in a

stronger position to use the knowledge they have acquired in the pursuit of their careers. To date, students have taken part in programs in Ecuador, France, Germany, Mexico, Spain and Russia. Mansfield University has an exchange program with Volgograd State University in Russia, with Freidrich-Schiller Universität in Germany, and has initiated a study abroad program with the Universidad Nacional in Costa Rica.

The foreign language laboratory has booths where students practice listening, comprehension and speaking skills. This facility is also equipped with several computer stations and has satellite receiver capability. In classrooms too, videos, slides, and maps are presented in various courses to enhance the learning/cultural environment and help provide a background for the appropriate language.

Foreign Language study is useful or necessary in various careers in government agencies, and provides an expertise often called upon in many areas of business, travel and tourism, journalism, criminal justice administration, geography, history, communications, political science, social work, and education.

The Languages and Literature Department also offers minors in French, German, Spanish and Latin American Studies.

PROGRAM REQUIREMENTS: German (B.A.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

GER	2201*	Intermediate German I	3
GER	2202*	Intermediate German II	3
GER	2205*	Phonetics and Pronunciation	1
GER	3300*	Conversational German	3
GER	3320*	Advanced German Structure	3
GER	3330*	Survey of German Literature I	3
GER	3331*	Survey of German Literature II	3
GER	3335*	Proseminar: Deutschlandkunde	
		or	
GER	3336*	Proseminar: Laender und Staedte	3
		or	
GER	3360*	Proseminar: Twentieth Century German Literature	
GER	xxxx	German Electives	12
		Total semester hours	34

PROGRAM REQUIREMENTS: German Education (B.S.E.): 120 s.h.

(*courses in asterisk may also satisfy General Education requirements)

ED	1102	Introduction to Education	3
ED	2205*	Educational Psychology	3
ED	3260	Assessment in Education	3
ED	3310	Content Area Reading and Writing	3
ED	3311	Teaching Secondary Foreign Language	3
ED	3320	Observation and Participation - Secondary	3
ED	4400	Student Teaching	12
ED	4460	Professional Seminar	3
GER	2201*	Intermediate German I	3
GER	2202*	Intermediate German II	3
GER	2205*	Phonetics and Pronunciation	1
GER	3300*	Conversational German	3
GER	3320*	Advanced German Structure	3

GER	3330*	Survey of German Literature I	3
GER	3331*	Survey of German Literature II	3
GER	3335*	Proseminar: Deutschlandkunde	
		or	3
GER	3336*	Proseminar: Laender und Staedte	
		or	
GER	3360*	Proseminar: Twentieth Century German Literature	
HST	2201*	American History through the Civil War	
		or	3
HST	2202*	American History- Reconstruction to the Present	
PSY	1101*	Introduction to General Psychology	3
SPE	3275	Inclusion of Diverse Learners	3
GER	xxxx	German Electives	12
		Total semester hours	76

HISTORY DEGREE PROGRAMS

Offered by the Department of History and Political Science
Associate Professor Guenther (chairperson)
Assistant Professors Bosworth, Chua, Gaskievicz, Holderby

The Department of History and Political Science two history degrees: a B.A. in History, and a B.S.E. in Social Studies/History. We offer minors in history, political science, international studies, and environmental studies.

The past is a living, dynamic subject and very much a part of today. This program in the humanities provides a solid background in the methods and concepts of historical investigation and introduces students to the various schools of historical interpretation. It includes courses in American, European, and Third World history, as well as a wide variety of arts and sciences courses. The research and writing skills developed in this program open opportunities in many areas. History is excellent preparation for law school. Combined with the appropriate courses, it provides a good background for journalism. Producers of television shows, documentaries, and movies, with settings in the past, all have research staffs to insure historically accurate productions. History graduates work in such diverse careers as editing publications, archival management, foreign service, and museums.

PROGRAM REQUIREMENTS: History, (B.A.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

Choose two of the following in the World Civilization sequence:			6
HST	1111*	World Civilization to 1350 (3)	
HST	1112*	World Civilization 1350-1900 (3)	
HST	1113*	World History Since 1900 (3)	
HST	2201*	United States History to 1877	3
HST	2202*	United States History Since 1877	3
HST	3290	Historical Methods	3
HST	4401*	History of Pennsylvania	
		Or	3
HST	4496	Seminar/Select Topics	
HST	xxxx	Global History Electives	6

HST	xxxx	United States History Electives	6
HST	xxxx	European History Electives	6
		Total semester hours	36

PROGRAM REQUIREMENTS: Social Studies: History (B.S.E.): 120 s.h.

For certification in Citizenship Education. (See The Teacher Education Certification Section, Page 59, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.)

(*courses with asterisk may also satisfy General Education requirements)

ED	1102	Introduction to Education	3
ED	2205*	Educational Psychology	3
ED	3260	Assessment in Education	3
ED	3310	Content Area Reading and Writing	3
ED	3320	Observation and Participation – Secondary	3
ED	4400	Student Teaching	12
ED	4460	Professional Seminar	2
SPE	3275	Inclusion Diverse Learners	3
Choose two of the following in the World Civilization sequence			6
HST	1111*	Western Civilization to 1350	
HST	1112*	Western Civilization 1350-1900	
HST	1113*	World History Since 1900	
HST	2201*	United States History to 1877	3
HST	2202*	United States History Since 1877	3
HST	3290	Historical Methods	3
HST	4401*	History of Pennsylvania	
		Or	3
HST	4496	Seminar/Select Topics	
HST	xxxx	Global History Electives	6
HST	xxxx	United States History Electives	3
HST/ED	3316	Teaching Citizenship Education	3
HST	xxxx	European History Electives	6
PSC	2201*	Introduction to American Government	3
ECO	1101*	Macroeconomics	3
ECO	1102*	Microeconomics	3
GEG	1101*	World Geography	
		Or	3
GEG	1102*	Human Geography	
PSY	1101*	Introduction to General Psychology	3
MA	xxxx	Math Electives	3
		Total semester hours	89

HONORS PROGRAM

The Honors Program at Mansfield University is a 24-credit multi disciplinary academic program which features innovative course work, challenging subjects and opportunities for cultural enrichment. This program is designed for students with a strong record of academic achievement and desire for new learning experiences. The Honors Program enables students to explore subjects that interest them in greater depth than may be possible in traditional courses and it also allows students to apply their knowledge across

academic fields. It is the goal of the Honors Program to provide students with the knowledge, skills and opportunities to achieve their full potential during their academic career at Mansfield University. Mansfield University is a member of the National Collegiate Honors Council (NCHC) and the Northeast Region National Collegiate Honors Council (NE-NCHC).

The Honors Program offers a dynamic learning environment that includes small classes, unique courses, collaborative and individual research projects and field-based educational experiences. All Honors Program students are required to complete five specially designed core courses, two honors electives, and one Senior Honors Research Presentation. The electives, representing a cross-section of the liberal arts and sciences, change each semester.

Enrollment in the Honors Program is accomplished in three ways: 1) Students who demonstrate superior high school achievement as reflected on SAT scores and high class rank are invited to accept early admission into the Honors Program during Freshman Orientation; 2) Freshman who exhibit strong academic potential during their first semester are invited to join the program on the basis of faculty recommendation; and 3) Students who have completed their freshmen year and demonstrate strong academic achievement can forward a written request to the Honors Program Director to be considered for admission.

Honors students must maintain a 3.00 in both their Honors courses and overall QPA. A student who falls below 3.0 will be placed on Honors Probation. The student is given one semester to improve their Quality Point Average and/or Honors course grades. Should the QPA not be raised to 3.0 by the following semester, the student will be dismissed from the Program. A student may appeal a dismissal by the Honors Program Director to the Honors Council. There are three REQUIRED meetings during the Academic year: one in August, one in January and one in February.

After you are admitted you will be assigned to an Honors Advisor who will assist you with your progress in the Program. The Honors Advisor also helps with the student's General Education program so that it is challenging and relevant to the student's interests. The Honors Program is compatible with all Mansfield University departmental majors without requiring any "extra" courses. All Honors courses count in fulfilling the General Education Block Requirements dependent upon content. If you should decide to leave the Honors Program you would not lose any of your credits earned. All credits would still appear on the student transcript and count as fulfilling your General Education requirements.

Benefits of the Honors Program include the following: Priority Scheduling, scholarship awards including M.U. Foundation Awards, Highest QPA by Class Book Awards and full scholarships to attend the five-week Summer Honors Program of the State System of Higher Education which earns each participant six University Honors credits. Past programs have included Moscow, Vienna, Scotland, South Africa, Ecuador and Oxford. In addition, specific Honors students are recognized at the University Honors banquet, Honors students are presented with Honors medallions, receive an Honors Sweater, attend the private press conference for the featured campus speaker, have their own study area, attend Senior Honor Research Project Presentations and have the opportunity to attend the Stratford Shakespeare Festival, Toronto Film Festival or Shaw Theater Festival. Graduating Honors student transcripts list their Honors accomplishments. Students in the following majors have the option of choosing either the Standard Honors Program requirements or a specialized sequence in Nursing, Music, Elementary Education or Special Education.

Standard Honors Program course requirements:

(All Honors courses satisfy General Education requirements)

HON	1111	Humanities Honors I	3
HON	1112	Humanities Honors II	3
HON	1107	Macrophysical Science	
		or	
		HON 1108 Microphysical Science	3
HON	2200	Researching Contemporary Issues	3
HON	3301	Field Work in the Natural and Social Sciences	3
HON	xxxx	Honors Electives (changes every semester)	6
HON	4497	Senior Research Presentation	3
		Total Semester Hours for Honors Program	24

For additional information about the Honors Program contact:

Honors Program Director
Dr. Sharon Carrish
South Hall 314

HUMAN RESOURCE MANAGEMENT CONCENTRATION

Offered by the Department of Psychology
Professors Keller, P. (chairperson), Launius, Murray, Seidel
Associate Professors Brown, Loher
Associate Professor Craig

The Psychology Department offers a B.S. degree in Psychology with a concentration in Human Resource Management (HRM). This concentration is designed to provide the foundation skills needed to fulfill traditional and newly emerging roles in human resource management. Students who have interests in both psychology and management often select this option. Recent graduates from the program have gone on to entry-level HRM positions in manufacturing, health care, government, and other settings. Graduates have also entered and successfully completed graduate work in HRM, industrial/organizational psychology, labor relations, and business. The program is unique because its curriculum enables students to fulfill outcomes consistent with education expectations in psychology as well as human resource management.

All students in the major must obtain grades of C or higher in PSY 1110, PSY 1151, and PSY 1191 to continue in the program. Students may retake these courses once to meet the standard. Those who fail to meet the standard will be advised in the selection of a new major.

PROGRAM REQUIREMENTS: Human Resource Management Concentration Psychology, (B.S.): 120 s.h.

(*courses with asterisk may satisfy General Education requirements)

PSY	1101*	Introduction to General Psychology	3
PSY	1151	Introduction to Applications of Psychology	3
PSY	1191	Introduction to Research Methods	3
PSY	2201	Tests and Measurements	3
PSY	2204	Survey Research Methods	
		Or	4

PSY	2250	Experimental Design I	
PSY	3311	Introduction to Small Group Process	3
PSY	3315	Human Resource Management I	3
PSY	3316	Human Resource Management II	3
PSY	4415	Labor Relations	3
PSY	4416	Compensation and Benefits	3
PSY	4490	Senior Seminar	3
PSY	4495	Internship (6 s.h. min)	
		Or	
PSY	4496	Research Apprenticeship	3
		Or	
PSY	4497	Independent Study	
Must Take 6 s.h. from:			
PSY	3310	Social Psychology	3
PSY	3325	Advanced Leadership	3
PSY	3332	Psychology of Stress Management	3
PSY	3391	Abnormal Psychology	3
PSY	4430	Theories of Personality	3
PSY	4462	Behavior Modification	3
Must Take 12 s.h. from:			
ACC	1110	Principles of Accounting I	3
BUS	2230	Management Principles	3
BUS	3310	Managing Diversity	3
ECO	1102	Microeconomics	3
CIS	2203	Software for Business Applications	3
COM	3336	Business & Professional Communication	3
BUS 4451 OR SOC 3301			3
		Total Semester hours	55

INTERNATIONAL BUSINESS – (See Business Administration)

JOURNALISM (See Mass Communication – Journalism)

LEADERSHIP FOR CHILDREN AND ADULTS WITH DISABILITIES DEGREE PROGRAM

Offered by the Department of Education and Special Education
Professors: Cleland, Straub (assistant chairperson), Brucklacher, Burns (chairperson)
Associate Professors: Benjamin, Fuller, Floyd, Lucero
Assistant Professors: Carico, Dale, Hammann, Minetola, Smith, Werner-Burke (assistant chairperson)
Instructors: Moore

PROGRAM REQUIREMENTS: (B.S.) 120 s.h.

The Department also offers a B.S. program in Leadership for Children and Adults with Disabilities designed for those interested in working with individuals with disabilities, not requiring teacher certification. Career opportunities include management and advocacy in areas of human service providers. This degree would also allow the individual to pursue a graduate degree in related services for child and adults with disabilities.

PSY	1101*	Introduction to General Psychology	3
SPE	1101	Introduction to Special Education	3
SPE	2201	Mentally and Physically Disabled	3
SPE	3275	Inclusion Diverse Learners	3
SPE	3290	Learning Disabled	3
SPE	3302	Assessment	3
SPE	3340	Children in Need of Emotional Support	3
SPE	3345	Behavior Management	3
SPE	4440	Methods II	3
SPE	4450	Internship	3

Cognate – Management – 18 s.h.

PSY	3311	Intro to Small Group Processes	3
PSY	3315	Human Resource Management I	3
PSY	3316	Human Resource Management II	3
PSY	3332	Psychology of Stress Management	3
BUS	1130	Introduction to Business & Management	3
SOC	3301	Organizational Behavior	3

Major Related Electives – 12 s.h. choose from the following:

ELE	2220	Child Development	3
HPE	3340	First Aid and CPR	3
PSY	3310	Social Psychology	3
PSY	3321	Adolescent Psychology	3
PSY	3324	Adult Development and Aging	3
PSY	3290	Life Span Development	3
SWK	2241	Introduction to Social Work	3
Any SPE course			

60

LIBERAL STUDIES DEGREE PROGRAM

Offered by Academic and Human Development
Professor: Baylor-Ayewoh
Associate Professors: Krieger, Chabala (chairperson)
Assistant Professors: Elsasser, Jenkins, Labuski-Brown
Instructors: Hollister, Rotella

PROGRAM REQUIREMENTS: Liberal Studies (B.A.): 120 s.h.
The Liberal Studies major allows students to combine course offerings from across the university to construct for themselves a program in a specialty in which the university does not grant a degree. Thus Business, Communication, Art, and Journalism could be combined to construct a concentration in Advertising, or Anthropology, History and Art History for Museum Studies. The program fosters creativity among students in putting together these combinations.

Students in Liberal Studies fulfill the university's General Education program and either take an academic minor or achieve second year proficiency in a foreign language. There are no specific course requirements for Liberal Studies. The structural heart of the program is the 24 hour rule. This rule holds that for a Liberal Studies student no more than 24 semester hours in any individual prefix area can be counted towards the number of hours needed for graduation (120). (Note that BUS, MUS, ART, ED, and ELE are each separate course prefix areas.) The 24 hour rule ensures that Liberal Studies will be used as a combined major, and it is strictly enforced.

Liberal Studies students may design an official academic concentration for themselves. This involves the student's submitting a sequence of courses to be taken to a faculty committee chosen by the Liberal Studies Advisor. The course sequence is approved by the faculty committee and the Office of the Provost and completed by the student.

The AHD Department houses the Liberal Studies program. Interested students should contact the chairperson, Professor William Chabala (570-662-4436), for information.

MANAGEMENT (See Business Administration)

MASS COMMUNICATION DEGREE PROGRAMS

Offered by the Department of Communication, Theatre and Art
Associate Professors Carrish-Bulkley, Longoria, Wright, L. (chairperson) Young
Assistant Professors Bernum, Crum, Strom-Mackey
Instructors Mason, Pieper

Mass Communication/Broadcasting
The Broadcasting emphasis prepares students for careers in electronic media writing, production and management, sales, on-air talent, audio recording, cable outlets, law, and advertising. Our program offers a vigorous major elective and free elective curriculum that is adapted to the student's career interest. Students gain experience working in the university's television and audio studios. Qualified students are encouraged to participate in the department's successful internship program.

After the first semester all majors will have a prepared portfolio reviewed by the student's advisor prior to registration for the subsequent semester. Details on portfolio contents can be found in the student department handbook.

PROGRAM REQUIREMENTS: Mass Communication, Broadcasting Concentration (B.S.): 120 s.h.

COM	2201	Intro to Mass Media	3
COM	2203	Voice and Articulation	3
COM	2220	American Broadcasting History	3
COM	3270	Audio Production	
		or	3
COM	3310	Electronic Media Management	
COM	3301	Television Program Design I	3
COM	3304	Television Program Design II	3
COM	3336	Business and Professional Communication	3
COM	4400	Communication Theory	3
COM	4440	Communication Law	3
JN	1100	Journalism	3
XXX	xxxx	Related Electives	24
		Total semester hours	54

Mass Communication/Journalism: The global information age has accelerated demand for persons equipped with journalism skills. Our program enhances students' abilities to gather, write and manage news and information. The program mixes professional training and surveys the role of the media in society. Related electives allow students to combine journalism skills with career interests such as technical writing, environmental journalism, graphics, sports writing and more. Some potential careers are print journalists, electronic journalists, news editors, information specialists, copywriters, and creative writers. Qualified students are encouraged to participate in the Department's successful internship program.

After the first semester all majors will have a prepared portfolio reviewed by the student's advisor prior to registration for the subsequent semester. Details on portfolio contents can be found in the student department handbook.

PROGRAM REQUIREMENTS: Mass Communication, Journalism Concentration (B.S.): 120 s.h.

COM	2201	Introduction to Mass Media	3
COM	3336	Business and Professional Communication	3
COM	4400	Communication Theory	3
COM	4440	Communication Law	3
JN	1100	Journalism	3
JN	2200	Crisis News Analysis	3
JN	2210	Media Design	3
JN	3310	Specialized News and Feature Writing	3
JN	3320	Magazine Writing and Production	3
JN	3330	Contemporary Issues in Journalism	3
XXX	xxxx	Related Electives	24
		Total semester hours	54

Mass Communication/Public Relations

The Public Relations concentration is excellent preparation for positions in many different public relations areas: an account executive at an advertising agency, a brand manager for a consumer product, a public relations director for a hospital, an information specialist for a non-profit organization, a sports information director, an owner of an advertising and public relations firm - with over 300 different career choices. Qualified students are encouraged to participate in the Department's successful internship program.

After the first semester all majors will have a prepared portfolio reviewed by the student's advisor prior to registration for the subsequent semester. Details on portfolio contents can be found in the student department handbook.

PROGRAM REQUIREMENTS: Mass Communication, Public Relations Concentration (B.S.): 120 s.h.

COM	2201	Introduction to Mass Media	3
COM	2203	Voice and Articulation	3
COM	2210	Introduction to Public Relations	3
COM	3320	Public Relations Writing Techniques	3
COM	3336	Business and Professional Communication	3
COM	4400	Communication Theory	3
COM	4401	Persuasion	3
COM	4420	Public Relations Workshop	3
COM	4425	Public Communication	3
COM	4440	Communication Law	3
JN	1100	Journalism	3
XXX	xxxx	Related Electives	24
		Total semester hours	57

MATHEMATICS DEGREE PROGRAMS

Offered by the Department of Mathematics and Computer Information Science
Associate Professors D'Ortona (chairperson), Krantz, Savoye, Schuerman
Professors H. Iseri, Lienhard
Assistant Professors Dietz, Haner, L. Iseri, Junius, Phillips, Tan

The Department of Mathematics and Computer Information Science offers two mathematics baccalaureate degree programs: B.S. in Mathematics (with a choice of two concentrations: Pure and Applied), and B.S.E. Mathematics (secondary education). The B.S. program in mathematics is designed to prepare students for a wide range of careers in mathematics outside of education, or for graduate school in mathematics. The B.S.E. in Mathematics program prepares students to become certified teachers of mathematics at the secondary school level. (See The Teacher Education Certification Section, Page 59, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.) There is also a minor in mathematics.

PROGRAM REQUIREMENTS: Mathematics Major (B.S.): 120 s.h.
(*courses with asterisk may also satisfy General Education requirements)

Core:

MA	2231*	Calculus I	4
MA	2232*	Calculus II	4
MA	2233*	Calculus III	4
MA	3260*	Discrete Structure	3
MA	3280*	Linear Algebra and Matrix Theory	3
MA	3314*	Applied Probability and Statistics	3
		Total semester hours for Mathematics Core	21

Concentrations:

Additional requirements for the Pure Mathematics Concentration:

MA	3345*	Real Analysis I	3
MA	3361*	Modern Algebra I	3
MA	xxxx	Mathematics Electives (upper level, by advisement)	15
		Total semester hours for Pure Mathematics Concentration	21

Additional requirements for the Applied Mathematics Concentration:

MA	3308*	Operations Research	3
MA	3311*	Differential Equations I	3
MA	3312*	Differential Equations II	3
PHY	2210*	General Physics I	4
PHY	2211*	General Physics II	4
XXX	xxxx	Related Electives (upper level, by advisement)@	12
		Total semester hours for Applied Mathematics Concentration	29

@ Between 1 and 6 semester hours at the 3000-4000 level from exactly one of the prefixes PHY, CHM, BI, CIS, or ECO may be used for Mathematics or related electives. The remaining semester hours (between 6 and 12) must be from the prefix MA at the 3000-4000 level.

PROGRAM REQUIREMENTS: Mathematics Education (B.S.E.): 123 s.h.
(*courses with asterisk may also satisfy General Education requirements)

ED	1102	Introduction to Education	3
ED	2205	Educational Psychology	3
ED	3260	Assessment in Education	3
ED	3310	Content Area Reading and Writing	3
ED	3314	Teaching Secondary Mathematics	3
ED	3320	Observation and Participation – Secondary	3
ED	4400	Student Teaching	12
ED	4460	Professional Seminar	2

HST	2201*	American History through Civil War	
		or	3
HST	2202*	American History - Reconstruction to Present	
MA	2231*	Calculus I	4
MA	2232*	Calculus II	4
MA	2233*	Calculus III	4
MA	3260*	Discrete Structures	3
MA	3280*	Linear Algebra and Matrix Theory	3
MA	3304	History and Philosophy of Mathematics	3
MA	3314*	Applied Probability and Statistics	3
MA	3329*	Modern Geometry I	3
MA	3361*	Modern Algebra I	3
MA	3000/4000*	Electives	12
PHY	2210*	General Physics I	4
PHY	2211*	General Physics II	4
PSY	1101*	Introduction to General Psychology	3
PSY	3290*	Life Span Development	
		or	3
PSY	3321*	Adolescent Psychology	
SPE	3275	Inclusion of Diverse Learners	3
		Total semester hours	94

MEDICAL TECHNOLOGY DEGREE PROGRAM

Offered by the Department of Biology

Medical Technology

The medical technology program includes three years of academic study on campus and one year (50 weeks) of clinical study at an approved hospital school of medical technology. This program is designed to prepare students for a professional career in clinical laboratory sciences and biotechnology. Medical technologists perform complex laboratory analysis that plays a crucial role in the diagnosis and treatment of disease. Courses at Mansfield range from general education, chemistry, biology, and physics to mathematics. Clinical courses include urinalysis, hematology, clinical chemistry, blood banking, immunology, parasitology, medical bacteriology, and mycology. The student must apply to a hospital school and be accepted by the hospital for the year of clinical study. Mansfield University has an affiliation with Robert Packer Hospital School of Medical Technology in Sayre, Pennsylvania. Brian Spezialetti, M.S.Ed, MT (ASCP), program director and Joseph King, M.D., medical advisor, administer the medical technology program at Robert Packer Hospital. Program graduates meet the requirements for certification by the American Society of Clinical Pathologists. Graduates of this program have professional employment opportunities in the following fields: hospital and private laboratories, pharmaceutical laboratories, research laboratories, biotechnology laboratories, veterinary clinics and forensic laboratories. Career growth is possible within the field and numerous graduate and professional school opportunities exist for students interested in furthering their education. If you choose not to do a clinical year or you are not accepted to a hospital school, you may complete a fourth year at Mansfield University and receive a B.S. in Biology.

PROGRAM REQUIREMENTS: Medical Technology (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	1100	Orientation to Biology	1
BI	1110*	Zoology	4
BI	3310	Physiology	4
BI	3370	Cell Biology	4
BI	3371	Microbiology	4
BI	3374	Immunology	3
CHM	1111*	General Chemistry I	4
CHM	1112*	General Chemistry II	4
CHM	3301	Organic Chemistry I	4
CHM	3302	Organic Chemistry II	4
CHM	3311	Quantitative Analysis	4
MA	2231*	Calculus I	4
PHY	1191*	Physics I	4
XXX	3000/4000	Clinical Education/ off campus	32
		Total semester hours	80

MUSIC DEGREE PROGRAMS

Professors Boston, Dettwiler, Galloway, Murphy, Sarch
Associate Professors Borsheim, Brennan (chairperson), Crowder, Gregorich, Kim, Schmid, Teal
Assistant Professors Eidenier, McEuen, Monkelien, Wetzel
Instructors Laib, Rinnert, Slotkin, Smolen, Tan

The Mansfield University Department of Music provides an environment that promotes academic, musical and personal growth as well as intellectual, ethical and aesthetic values. The department serves the regional, national and international communities by developing human and material resources. The department of music is committed to stimulating a continuous pursuit of knowledge, understanding and skills by students and faculty.

The Music Department offers five degree programs leading to the baccalaureate degree with a major in music. Students in other majors with appropriate interest and aptitude may pursue a minor in music. Degree programs include: performance, music education, music therapy, music with elective studies in business, and a BA in music. Students must complete a live audition for acceptance into a music degree program. Please refer to the department for audition information and other entrance requirements. All music programs are accredited by the National Association of Schools of Music (NASM).

Students in all music degree programs are required to complete a core of essential courses in music theory, music history and literature, applied music and piano, and they must participate in music ensembles. All music students are required to pass a piano proficiency. Each individual degree program has additional proficiency requirements to better prepare the student for his chosen field of endeavor. During the fourth semester of study, all students will complete a sophomore review.

The review will consist of performance on primary instrument, and piano, singing and sight-reading, rhythmic reading and conducting, written career goals and grade point average. The review must be passed to continue into upper division music courses.

Music B.A.

The Bachelor of Arts in Music program provides a broad education in music rather than a heavy concentration on any single area. Students enrolled in this program develop musicianship and performance abilities as well as an intellectual understanding of the arts within the framework of a liberal arts degree. This program is appropriate for undergraduates who wish to major in music irrespective of specific career aspirations. It serves individuals who seek a broad program in general education rather than intense specialization at the undergraduate level. Students must successfully complete a live audition for admission to this program.

PROGRAM REQUIREMENTS: Music (B.A.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

MU	2211	Basic Music I	3
MU	2212	Basic Music II	3
MU	2220*	Western Art Music until 1750	3
MU	2221*	Classic and Romantic Music	3
MU	3222*	Post Romantic and 20th Century Music	3
MU	3311	Basic Music III	3
MU	3312	Basic Music IV	3
Applied Music (Major 14, Secondary 2, Ensemble 8)			24
		Total semester hours	45

Music-Business

The B.M. with Elective Studies in Business is a program designed for students who want to prepare for careers in the music industry including music products, publishing, and arts management. An intern program provides the student with field experiences prior to graduation. Students must successfully complete a live audition for admission to this program.

PROGRAM REQUIREMENTS: Music-Elective Studies in Business (B.M.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ACC	1110	Principles of Accounting I	3
BUS	1130	Introduction to Business and Management	3
BUS	3330	Marketing	3
BUS	3370	Salesmanship	3
CIS	1103	Introduction to Microcomputers	3
COM	2210	Introduction to Public Relations	3
ECO	1102*	Principles of Microeconomics	3
MU	2211	Basic Music I	3
MU	2212	Basic Music II	3
MU	2220*	Western Art Music until 1750	3
MU	2221*	Classic and Romantic Music	3
MU	3222*	Post Romantic and 20th Century Music	3
MU	3311	Basic Music III	3
MU	3312	Basic Music IV	3
MU	3318	Keyboard Skills	1
MU	4481	Survey of the Business of Music	3
MU	4489	Internship - Music Merchandising	12
XX	xxxx	Major Elective	3
MU	xxxx	Applied Music (Major 12, Secondary 6, Ensemble 7)	25
		Total semester hours	86

Music Education

The Bachelor of Music Education program is designed to meet the certification requirements set by the Commonwealth of Pennsylvania. Completion of the music education degree prepares students to teach both vocal and instrumental music at the kindergarten through high school levels. Further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements may be found in the Teacher Education Certification Section. The music education program is accredited by NASM, the Pennsylvania Department of Education, The National Council of Accreditation of Teacher Education, and the Middle States Association of Colleges and Secondary Schools. Students must successfully complete a live audition for admission to this program.

PROGRAM REQUIREMENTS: Music Education (B.M.): 124 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ED	1102	Introduction to Education	3
ED	2250*	Educational Psychology	3
MU	1141	Introduction to Music Education	1
MU	2211	Basic Music I	3
MU	2212	Basic Music II	3
MU	2220*	Western Music until 1750	3
MU	2221*	Classic and Romantic Music	3
MU	2241	Music in the Elementary School	2
MU	2250	Basic Conducting	1
MU	3222*	Post Romantic and 20th Century Music	3
MU	3311	Basic Music III	3
MU	3312	Basic Music IV	3
MU	3315	Orchestration	3
MU	3318	Keyboard Skills	1
MU	3342	Music in the Secondary School	2
MU	3343	Instrumental Music in the Public School	2
		or	
MU	3344	Vocal-Choral Music in the Public Schools	
MU	3350	Choral Conducting	2
		or	
MU	3351	Instrumental Conducting	
MU	4400	Student Teaching	12
MU	xxxx	Applied Music (Voice Students require MU 352)	
		(Major 12, Secondary 12, Ensemble 7)	31
PSY	1101*	Introduction to General Psychology	3
SPE	3275	Inclusion of Diverse Learners	3
		Total semester hours	90

Music Performance

The B.M. in Music Performance is available in piano, organ, guitar, voice, percussion, and any standard string, brass, and woodwind instrument. Students must successfully complete a live audition for admission to this program. Completion of a performance degree will prepare students for further study in music at the master's level. Mansfield University is proud to offer this degree to exceptional musicians whose career goals are to perform professionally.

PROGRAM REQUIREMENTS: Music Performance, (B.M.):120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

MU	2211	Basic Music I	3
MU	2212	Basic Music II	3
MU	2220*	Western Art Music until 1750	3
MU	2221*	Classic and Romantic Music	3
MU	2250	Basic Conducting	1
MU	3222*	Post Romantic and 20th Century Music	3
MU	3311	Basic Music III	3
MU	3312	Basic Music IV	3
MU	3314	Computer Music Notation	1
MU	3323, 4420, 4429	Literature	3
MU	3350 or 3351	Choral or Instrumental Conducting	2
MU	4471-4477	Pedagogy	2
MU	xxxx	Music Electives	5
	(Voice concentration requires MU352 and MU 353)		
MU	xxxx	Applied Music (Major 30, Secondary 4, Ensemble 12)	46
		Total semester hours	81

Music Therapy

The B.M. in Music Therapy offers challenge, opportunity, and special rewards to those interested in working with people. Children and adults who require therapy because of behavioral, psychological, and/or physical disorders are helped through the use of music. The skills of the music therapist are needed in a variety of places, including neuropsychiatric hospitals, centers for the developmentally disabled, geriatric centers, day care facilities, community health centers, and substance abuse agencies. In addition to the professional internship which is taken after all other course work, students complete a wide variety of clinical experiences throughout the four years on campus and take the Certification Board Examination administered by the Certification Board for Music Therapists. The department is a member of the American Music Therapy Association. A live audition is required for admission to this program.

PROGRAM REQUIREMENTS: Music Therapy (B.M.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BSC	1121*	Human Anatomy and Physiology I	4
BSC	1122*	Human Anatomy and Physiology II	4
MTH	1171	Therapy Orientation	3
MTH	2210	Clinical Integration I	1
MTH	2211	Clinical Integration II	1
MTH	2211L	Clinical Orientation Lab	1
MTH	3352*	Movement in Music Therapy	2
MTH	3372	Psycho-Social Foundations of Music	3
MTH	4110	Advanced Clinical Integration I	1
MTH	4410	Advanced Clinical Integration I	1
MTH	4411	Advanced Clinical Integration II	1
MTH	4411	Advanced Clinical Integration II	1
MTH	4471	Influence of Music on Behavior	3

MTH	4472	Music inTherapy	3
MTH	4475	Internship	2
MU	2211	Basic Music I	3
MU	2212	Basic Music II	3
MU	2220*	Western Art Music until 1750	3
MU	2221*	Classic and Romantic Music	3
MU	2250	Basic Conducting	1
MU	3222*	Post Romantic and 20th Century Music	3
MU	3311	Basic Music III	3
MU	3312	Basic Music IV	3
MU	3314	Computer Music Notation	1
MU	3315	Orchestration	3
MU	3318	Keyboard Skills	1
PSY	1101*	Introduction to General Psychology	3
MU	xxxx	Applied Music (Major 14, Secondary 7, & Ensemble 8)	29
PSY	3391	Abnormal Psychology	3
SOC/ANH*	xxxx	Elective	3
SPE	1101	Introduction to Special Education	3
		Total semester hours	99

NURSING DEGREE PROGRAMS

Offered by the Robert Packer Department of Health Sciences and Physical Activities
Professors Biblehimer, Sheehe (chairperson)
Associate Professors Evans, Garrett, Maisner, McGuire (assistant chairperson), Seigart, Wright, K.
Assistant Professors Materese, McEwan, Schintzius
Instructors Falk, Hanlon, Vosburgh

Nursing

Mansfield University's Robert Packer Department of Health Sciences and Physical Activities offers a nursing program, accredited by The National League for Nursing Accrediting Commission, 61 Broadway, NYC, NY 10006 (800-669-9656), which blends the resources of a public university and a regional medical center. This combination leads to a program that is both academically and clinically strong. The curriculum provides a solid background in nursing as well as the liberal arts and sciences.

Students spend their first two years on the Mansfield campus taking courses in general education and nursing. The second two years are at the Sayre site where they engage in a wide range of clinical experiences at the Robert Packer Hospital. Students also have the opportunity to learn in community settings such as nursing homes, elementary and secondary schools, nursery schools, and outpatient clinics, in addition to traditional public health agencies.

The goals of the program are to provide students with the essentials skills necessary to develop intellectual curiosity, critical thinking, communication skills, therapeutic nursing skills which provide the basis for the development of a successful and professional nursing practitioner. This educational program prepares individuals for career opportunities in acute, chronic and community settings.

Policies and Procedures specific to the nursing major:

The Mansfield University nursing program endeavors to comply with the Americans With Disabilities Act and with University Policies regarding students with disabilities. Every effort will be made to provide reasonable accommodation for qualified students with disabilities who are able to perform the essential functions of our academic program in nursing. Students who are accepted into the program, and then discovered to be unable to perform these essential functions (with or without accommodation) may not be able to complete the program. Graduates who complete the program but are unable to perform certain competencies may experience significant roadblocks to, and in, the employment setting.

Admissions: Criteria for admission shall be the same as that for general admission to the University with these exceptions: Applicants must submit satisfactory reports of medical and dental examinations prior to the opening of the school term, and have completed the following subjects in high school:

English, four (4) credits

History or Social Studies, three (3) credits

Lab sciences, two (2) credits (Biology and Chemistry required) (LPNs and RNs with integrated curricula may meet this requirement.)

Math, two (2) credits, one of which must be algebra

Minimum Academic Requirements: Students are subject to all university academic requirements. The following academic requirements apply only to continuance in the nursing program at the University.

A. Required courses for the B.S. degree in Nursing are not included in the University Pass/Fail policy.
B. A grade of C or better must be achieved in all nursing (NUR) courses.
C. An unsatisfactory grade in the clinical component of a nursing course will result in an F grade for the course.
D. Requirements for the Bachelor of Science degree in Nursing must be completed within seven years.
E. Program Progression:
   1. A 2.5 cumulative GPA or better is required to enroll in sophomore, junior, and senior level nursing courses (NUR 2200-4499).
   2. A grade of C minus (C-) or better in CHM 1110, BSC 1121, BSC 1122, BSC 3271 (or equivalent courses) is required to progress in the nursing program.
F. Program Academic Dismissal:
   1. Students who fail to achieve a C grade or better after taking a nursing (NUR) course for the second time will be automatically dismissed from the nursing program.
   2. Only one nursing (NUR) course may be repeated for the entire nursing program. If a student receives a C minus (C-) or below in a second nursing course, the student will be dismissed from the program.

Students must be enrolled as a nursing major to take nursing courses.

Students must meet all clinical agency health requirements. These may include specific immunizations, urine drug testing, and a respirator fit test. Students will be expected to cover the costs of immunizations and urine drug testing.

Licensure Eligibility in Pennsylvania: Applicants to nursing education programs in Pennsylvania should be aware of certain restrictions on obtaining a nursing license. Pennsylvania Public Law No. 317, No. 69, known as the Professional Nursing Law, places the following limitation on licensure eligibility.

The Board shall not issue a license or certificate to an applicant who has been convicted of a felonious act prohibited by the act of April 14, 1972 (P.L. 233, No. 64), known as The Controlled Substance Drug, Device and Cosmetic Act, or convicted of a felony relating to a controlled substance in a court of law of the United States or any other state, territory or country unless:

At least ten (10) years have elapsed from the date of conviction;

The applicant satisfactorily demonstrates to the Board significant progress in personal rehabilitation since the conviction such that licensure of the applicant should not be expected to create a substantial risk of harm to the health and safety of patients or the public or a substantial risk of further criminal violations;

The applicant otherwise satisfies the qualifications contained in or authorized by this act.

As used in this subsection the term convicted shall include a judgement, an admission of guilt, or a plea of nolo contendere. (Sect. 6, P.S.'216).

One hour of class equals one semester hour of credit. Three hours of clinical equals one semester hour of credit.

Registered nurses who enroll to complete a baccalaureate degree in Nursing are granted advanced standing based on university policies. RN students must complete 31 nursing credits at Mansfield University and meet all other university requirements to be eligible for graduation.

PROGRAM REQUIREMENTS: Nursing (B.S.N.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BSC	1121*	Human Anatomy and Physiology I	4
BSC	1122*	Human Anatomy and Physiology II	4
BSC	3271*	Microbiology for the Health Sciences	
		or	4
BI	3371	Microbiology	
CHM	1110*	Survey of Chemistry-Introductory, Organic, and Biological	4
DIT	2211	Introduction to Nutrition	3
MA	1125*	Introductory Statistics I	3
NUR	1170	Introduction to the Health Sciences	1
NUR	3270	Introduction to Professional Nursing I	3
NUR	3271	Introduction to Professional Nursing II	4
NUR	3361	Introduction to Nursing Research	2
NUR	3370	Nursing of the Adult Client	8
NUR	3371	Nursing Care of Childbearing and Childrearing Families	8
NUR	3391	Pathophysiologic and Pharmacologic Bases of Nursing I	3
NUR	3392	Pathophysiologic and Pharmacologic Bases of Nursing II	3
NUR	4460	Current Issues in Professional Nursing	3
NUR	4471	Community Health Nursing	6
NUR	4472	Mental Health Nursing	6
NUR	4480	Leadership and Management in Nursing	3
NUR	4490	Care of the Client with Multisystem Stressors	8
NUR	xxxx	Nursing Elective	3
PHL	3380*	Health Care Ethics	3
PSY	1101*	Introduction to Psychology	3
SOC	1101*	Introduction to Sociology	3
		Total semester hours	92

PROGRAM REQUIREMENTS: Nursing (R.N. to B.S.N.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BSC	1121*	Human Anatomy and Physiology I	4
BSC	1122*	Human Anatomy and Physiology II	4
BSC	3271*	Microbiology for the Health Sciences	
		or	4
BI	3371	Microbiology	
CHM	1110*	Survey of Chemistry – Introductory, Organic and Biological	4
DIT	2211	Introduction to Nutrition	3
MA	1125*	Introductory Statistics I	3
PHL	3380*	Health Care Ethics	3
PSY	1101*	Introduction to Psychology	3
SOC	1101*	Introduction to Sociology	3
Nursing Transfer Credits: (38)			
NUR	1170	Introduction to Health Sciences	1
NUR	3270	Introduction to Nursing I	3
NUR	3271	Introduction to Nursing II	4
NUR	3370	Nursing of the Adult Client	8
NUR	3371	Care of Childbearing / Childrearing families	8
NUR	4472	Mental Health Nursing	6
NUR	4490	Care of the Client with Multisystem Stressors	8
Nursing Major Credits: (31)			
NUR	3260	Concepts of Professional Nursing	3
NUR	3261	Health Assessment for RN's	3
NUR	3361	Introduction to Nursing Research	2
NUR	3391	Pathophysiologic and Pharmacologic Bases of Nursing I	3
NUR	3392	Pathophysiologic and Pharmacologic Bases of Nursing II	3
NUR	4460	Current Issues in Professional Nursing	3
NUR	4471	Community Health Nursing	6
NUR	4480	Leadership and Management in Nursing	3
NUR	xxxx	Nursing Elective (s)	5
		Total Semester Hours	100

Note: RN to BSN students must take a minimum of 31 s.h. with NUR prefix from Mansfield University.

NUTRITION AND DIETETICS DEGREE PROGRAM

Offered by the Robert Packer Department of Health Sciences and Physical Activities
Professors Biblehimer, Sheehe (chairperson)
Associate Professors Evans, Garrett, Maisner, McGuire (assistant chairperson), Seigart, Wright, K.
Assistant Professors Materese, McEwan, Schintzius
Instructors Falk, Hanlon, Vosburgh

Nutrition and Dietetics

The Mansfield University Nutrition and Dietetics program is currently granted approval status by the Commission on Accreditation for Dietetics Education of the American Dietetic Association, 120 South Riverside Dr., Chicago, IL 60606 (312-899-0040 ext5400). This program includes specialized courses in life cycle nutrition, community nutrition, advanced nutrition, medical nutrition therapy, nutrition education and counseling, food science, food service, chemistry and biology. Students have the opportunity to learn about nutrition and dietetics in a rural environment.

Graduates of this program have two options: (1) to obtain an American Dietetic Association accredited internship in order to become a Registered Dietitian or (2) to obtain an entry level job in the fields of nutrition or food service management.

Career opportunities in this growing field include jobs in schools, fitness facilities, industry, food service operations, hospitals, long term care facilities, private practice, wellness programs and a variety of public and private organizations.

Nutrition and dietetics students are subject to all University academic requirements. The following academic requirements apply only to those continuing in the Nutrition and Dietetics Program.

1. Courses required for the B.S. in Nutrition and Dietetics may not be taken Pass/Fail.
2. A grade of "C" or above is required in all nutrition and dietetics (DIT) courses or the course must be repeated.
3. Nutrition and Dietetics courses may be repeated once. Failure to achieve a "C" grade of better after taking the same course for a second time will block the student from enrollment in any further courses with the same prefix offered by Mansfield University.
4. Requirements for the B.S. in Nutrition and Dietetics must be completed in 7 years or the student may need to repeat certain courses.
5. Students must maintain a minimum GPA of 2.5.
6. All academic standards stated above must be met to receive a Verification Statement. This statement is required for an American Dietetic Association internship, licensure and in some states for certification.

Students must meet all clinical agency health requirements. These may include specific immunizations, urine drug testing, and a respirator fit test. Students will be expected to cover the costs of immunizations and urine drug testing.

The Mansfield University Nutrition and Dietetics program endeavors to comply with the Americans With Disabilities Act and with University Policies regarding students with disabilities. Every effort will be made to provide reasonable accommodation for qualified students with disabilities who are able to perform the essential functions of our academic program in Nutrition and Dietetics. Students who are accepted into the program, and then discovered to be unable to perform these essential functions (with or without accommodation) may not be able to complete the program. Graduates who complete the program but are unable to perform certain competencies may experience significant roadblocks to, and in, the employment setting.

DEGREE REQUIREMENTS: Nutrition and Dietetics (B.S.): 120 s.h.
(*courses with asterisk may also satisfy General Education requirements)

BSC	1121*	Human Anatomy and Physiology I	4
BSC	1122*	Human Anatomy and Physiology II	4
BSC	3271*	Microbiology for Health Sciences	4
BUS	1130	Introduction to Business and Management	3
CHM	1101*	Introduction to Chemistry	4
CHM	1102*	Organic and Biochemistry	4
CHM	2201	Introduction to Biochemistry	4
DIT	2211*	Introduction to Nutrition	3
DIT	3305	Principles of Food Science	3
DIT	3314	Nutrition Throughout the Life Cycle	3
DIT	3315	Food Service Organization and Management	3
DIT	3316	Community Nutrition	3
DIT	3325	Nutrition Education and Education	3
DIT	4401	Medical Nutrition Therapy I	3
DIT	4402	Medical Nutrition Therapy II	3
DIT	4420	Nutrition Research Seminar	3
DIT	4411	Quantity Food Production	4
DIT	4417	Advanced Nutrition	3
DIT	xxxx	Choice	3
MA	1125*	Introductory Statistics I	3
PSY	1101*	Introduction to General Psychology	3
		Total semester hours	70

PHILOSOPHY DEGREE PROGRAM

Offered by the Department of Philosophy
Professors Newman, Timko (chairperson), Young
Assistant Professor McEvoy

Philosophy courses provide students the opportunity to investigate important questions of life in an adult manner. Philosophy is concerned with such issues as the meaning of life, whether we are really free, the nature of the self, how we can determine what is morally right and wrong, proper reasoning (logic), whether there is a God, the nature of religion, science, and art. The department offers the B.A. degree in philosophy, as well as a philosophy minor. Additionally, the minor program in Canadian Studies, and the minor in Pre-Law are all administered by the Philosophy Department.

A Philosophy major provides an excellent grounding in the fundamental ideas and concepts of our culture. It thus explains a great deal of why we are the way we are and do the things we do. Students are introduced to major philosophers such as Plato, Aristotle, Descartes, and Hume. The major is appropriate for those wishing to pursue advanced degrees in Philosophy and is also excellent training for any profession requiring skill in analytic reasoning, writing, and argumentation. There is sufficient flexibility in the Philosophy major to allow students to combine Philosophy as a double major with any other university program. The Philosophy Minor requires eighteen semester hours in philosophy are required, with at least nine of these being at the upper division level.

Canadian Studies

The formal study of Canada is a critical element in the education of the next generation of leaders, providing a significant, accessible avenue for understanding global interdependence and multicultural environments. Moreover, with Canada and the United States as each other's largest trading partner, learning about Canada as a foreign market makes increasingly good economic sense, especially as the North America Free Trade Agreement (NAFTA) becomes fully implemented and international job mobility increases.

The Canadian Studies minor provides the student with an interdisciplinary approach to understanding the history, literature, economics, politics, business, fine arts, educational systems, and the physical and cultural environments of our northern neighbor. Building on the theoretical and practical content of the core course, the student selects courses from across the curriculum wherever Canadian content or perspectives are designated.

Pre-Law

Mansfield University has an active and successful effort in the preparation of students for the study of Law. This program centers around the Pre-Law Association and the Pre-Law Academic Minor. Pre-Law is administered by the Philosophy Department. Dr. Thomas Young is the Pre-Law advisor. His office is in South Hall 315; his email address is tyoung@mnsfld.edu. The Pre-Law Association is an active, student-funded organization which supplies students with various types of support in preparation for law school. This includes trips to law school fairs, advice concerning LSAT preparation programs, advice on studying for the LSAT, visits to Mansfield University from law school recruiters, advice on applying to law schools, discussions by visiting alumni attorneys or law students, etc. In order to ensure that students expressing the intention of enrolling in law school will receive the support they need, these students are brought in to Mansfield University as Philosophy majors. Such students are not at all required to remain Philosophy majors, but they are expected to discuss an appropriate major for themselves with the Pre-Law advisor, depending on the area of law they anticipate practicing.

PROGRAM REQUIREMENTS: Philosophy Major, (B.A.) 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

PHL	2201*	Introduction to Philosophy	
		or	3
PHL	2202*	Contemporary Moral Problems	
PHL	3230*	Formal Logic	3
PHL	xxxx	Philosophy Electives	9
PHL	4420	Classical Greek Philosophy	3
PHL	4422	Topics in Modern Philosophy	3
PHL	xxxx	20th Century Philosophy requirement 3 s.h. from the following courses	
PHL	3390	Existentialism	
PHL	3470	Theories of Mind and Knowledge	
PHL	4423	Twentieth Century Philosophy	
PHL	3000/4000	Philosophy Electives	9
		Total Semester Hours	33

PHYSICS DEGREE PROGRAMS

Offered by the Department of Chemistry and Physics
Professors Ramasamy (chairperson), Davis
Associate Professors Ambrosio, Chester, Ganong, Vayansky
Assistant Professors Carson, Kiessling
Instructor Tandon

The Department of Chemistry and Physics offers two programs which lead to the baccalaureate degree with a major in physics. Minors in Chemistry, Physics, and Forensic Science are available as further options.

Physics

The B.S. degree in physics offers intensive training in classical and modern physics both in the classroom and in the laboratory. Students are taught the fundamental laws of nature and how to apply these principles to practical problems and situations. Some career opportunities for students who complete the B.S. degree program in Physics include: research assistants in government and industrial laboratories; technicians in the communication, electronics, and energy industries; and editors/writers of technical manuscripts. This program is excellent preparation for graduate study in physics, engineering, law, and economics.

Physics/Pre-Engineering

The B.S. degree in physics with pre-engineering concentration is designed for students who want a broadly based physics and engineering education. This program is a cooperative endeavor between Mansfield University and other institutions. Check with your advisor to see the list of other institutions. Students spend three years at Mansfield completing the bulk of their required course work for the physics degree and then two years at an engineering school completing their course work for the engineering degree. At the culmination of the experience, the student will have earned a B.S. in physics from Mansfield and an engineering degree from the affiliated school. Some career opportunities for students who choose to participate in this program include mechanical, electrical, civil, and chemical engineers; consultants to engineering firms; and research assistants in government and industrial laboratories.

Physics/Nanotechnology

The B.S. degree in physics with a nanotechnology concentration offers students the opportunity to experimentally and theoretically explore surface and thin film physics. Nanotechnology is the science of manipulating matter one atom at a time. The nanotechnology concentration involves collaboration between Mansfield University and the Pennsylvania State University. This program features an 18 credit hour laboratory experience at the Penn State Nanofabrication Facility. Some possible opportunities for students who complete this program include careers in microelectronics, optoelectronics, semiconductor and microsensor fabrication, and biotechnology.

PROGRAM REQUIREMENTS: Physics (B.S.) with Physics, Pre-engineering or Nanotechnology Concentrations: 120 s.h.
(*courses with asterisk may also satisfy General Education requirements)

Core:

CHM	1111*	General Chemistry I	4
CHM	1112*	General Chemistry II	4
MA	2231*	Calculus I	4
MA	2232*	Calculus II	4
MA	2233*	Calculus III	4
MA	3280*	Linear Algebra and Matrix Theory	3
MA	3311*	Differential Equations I	3
MA	3312*	Differential Equations II	3
PHY	1180	Quantitative Methods of the Physical Sciences	3
PHY	2210*	General Physics I	4
PHY	2211*	General Physics II	4
PHY	3311	Modern Physics I	3
PHY	3312	Modern Physics II	3
PHY	3313	Physical Mechanics I	3
PHY	3315	Analog Electronics	4
PHY	3316	Digital Electronics	4
		Total Semester Hours for Core	57

Concentrations

Pre-Engineering Concentration: 6 s.h.

PHY	xxxx	Physics Electives (3300/4400upper level)	6
		Total Semester Hours for Concentration	6

Physics Concentration: 15 s.h.

PHY	xxxx	Physics Electives (3300/4400upper level)	15
		Total Semester Hours for Concentration	15

Nanotechnology Concentration: 24 s.h.

SCI	3270	Nanotechnology Laboratory Experience	18
PHY	xxxx	Physics Electives (3300/4400 level)	6
		Total Semester Hours for Concentration	24

Physics Education

The B.S.E. degree in physics is designed for those students who want to teach physics in secondary schools. This program provides the necessary course work for certification as a physics teacher. Advising is handled by both education and physics faculty members. Many students enrolled in this program also choose to seek certification in mathematics. (See The Teacher Education Certification Section, Page 59, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.)

PROGRAM REQUIREMENTS: Physics Education (B.S.E.): 126 s.h.

(*courses with asterisk may also satisfy General Education requirements)

CHM	1111*	General Chemistry I	4
CHM	1112*	General Chemistry II	4
ED	1102	Introduction to Education	3
ED	2205	Educational Psychology	3
ED	3260	Assessment in Education	3
ED	3310	Content Area Reading and Writing	3
ED	3313	Teaching Science in Secondary Schools	3
ED	3320	Observation and Participation – Secondary	3
ED	4400	Student Teaching	12
ED	4460	Professional Seminar	2
ENG	xxxx*	Literature	3
MA	2231*	Calculus I	4
MA	2232*	Calculus II	4
MA	2233*	Calculus III	4
MA	3280*	Linear Algebra and Matrix Theory	3
MA	3311*	Differential Equations I	3
MA	3312*	Differential Equations II	3
PHY	1180	Quantitative Methods of the Physical Sciences	3
PHY	2210*	General Physics I	4
PHY	2211*	General Physics II	4
PHY	3311	Modern Physics I	3
PHY	3312	Modern Physics II	3
PHY	3313	Physical Mechanics I	3
PHY	3315	Analog Electronics	4
PHY	3316	Digital Electronics	4
PSY	1101*	Introduction to General Psychology	3
PSY	3321*	Adolescent Psychology	3
SPE	3275	Inclusion of Diverse Learners	3
		Total semester hours	101

Minors:

The department offers minors in chemistry, physics, or forensic science to all interested persons who fulfill the basic requirements of the programs. The minor, while not a degree program, is intended to permit students to develop their interest in chemistry, physics, or forensics and thereby broaden their background as they acquire marketable skills. See "Minors" listing in the catalog.

POLITICAL SCIENCE DEGREE PROGRAMS

Offered by the Department of History and Political Science
Associate Professor Guenther (chairperson)
Assistant Professors Bosworth, Chua, Gaskievicz, Holderby

The Department of History and Political Science offers one political science degree: a B.A. in Political Science. We offer minors in history, political science, international studies, and environmental studies.

Political Science

The political science program provides a broad and balanced introduction to the study of government and politics in both the U.S. and abroad. The goal is to provide both breadth and depth of knowledge and proficiency in the concepts, theories, and ideas about politics. This program takes an explicitly interdisciplinary approach to educate students about the study of politics. All students in these courses are encouraged to become articulate, active, and informed citizens. The knowledge and skills nurtured in this program are widely applicable to further study in graduate school or law school and for the pursuit of careers in business, law, public administration, politics, teaching, journalism, communications, and research.

PROGRAM REQUIREMENTS: Political Science (B.A.): 120 s.h..

(*courses with asterisk may also satisfy General Education requirements)

PSC	2201*	Introduction to American Government	3
PSC	2210*	Introduction to International Relations	3
PSC	2212	Introduction to Comparative Politics	3
PSC/SOC	3308	Social Research Methods	3
Political Science Electives (min. 18 at upper level)			24
		Total semester hours	36

PRE-ENGINEERING (See Physics)

PSYCHOLOGY DEGREE PROGRAM

Offered by the Department of Psychology
Professors Keller, P. (chairperson), Launius, Murray, Seidel
Associate Professors Brown, Craig, Loher

The Psychology Department offers a B.S. degree in Psychology with concentrations in Psychology and Human Resource Management. The Psychology concentration is chosen by students who (1) plan advanced study in the field, (2) intend to seek employment in a related area upon graduation, or (3) seek a liberal arts background within the Psychology major. Many graduates enter master's degree programs in counseling or related fields.

All students in both concentrations must obtain grades of C or higher in PSY 1110, PSY 1151, and PSY 1191 to continue in the program. Students may retake these courses once to meet the standard. Those who fail to meet the standard will be advised in the selection of a new major.

Minors are available in Psychology and Psychology of Human Development. The Psychology minor provides a general survey of the field. The Psychology of Human Development minor provides more focused study in areas of child, adolescent, or adult development.

Careful advisement of students is a priority of the Psychology Department. All students must complete a thorough orientation to the major, and their subsequent studies are guided by a goal-oriented process. All students maintain a portfolio to assess their learning and guide their academic and professional development. The portfolio is submitted for final review in conjunction with the department's senior seminar course.

Students are involved in various forms of research under faculty direction. Students present their research at the annual Psychology Research Symposium.

Many students report the internship to be an important part of their educational experience. For some, the internship leads directly to employment. The Psychology Department maintains relationships with a broad range of organizations that offer internships in counseling, other human services, health care, or business. To qualify for an internship, students must maintain a B average in the major. Advisors work closely with students to plan the internship and ensure that the experience is successful.

To meet requirements for graduation as a Psychology major, students must (1) satisfy the University's general education and degree requirements, (2) complete the Psychology course requirements, (3) submit an acceptable portfolio, (4) pass a comprehensive exit examination, and (5) complete either an independent research project, a research apprenticeship, or an internship.

PROGRAM REQUIREMENTS: Psychology, (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

PSY	1101*	Introduction to General Psychology	3
PSY	1151	Introduction to Applications of Psychology	3
PSY	1191	Introduction to Research Methods	3
PSY	2201	Tests and Measurements	3
PSY	2204	Survey Research Methods	
		or	4
PSY	2250	Experimental Design I	
PSY	3290*	Life Span Development	3
Select 2 from PSY 3310, 3391 or PSY 4430:			
PSY	3310	Social Psychology	3
		or	
PSY	3391	Abnormal Psychology	
		or	
PSY	4430	Theories of Personalities	
PSY	4490	Senior Seminar	3
PSY	4495	Internship (6 s.h. min.)	
		or	
PSY	4496	Research Apprenticeship (6 s.h. min.)	
		or	
PSY	4497	Independent Study (3 s.h. min.)	
Psych/Lab Electives			
Select a Psychology Lab Course from:			4
PSY	3350	Experimental I: Learning (3)	
PSY	3350L	Experimental I: Lab (1)	
PSY	3355	Health Psychology (4)	

PSY	4460	Physiological Psychology (3)	
PSY	4460L	Physiological Psychology Lab (1)	
Select Group A or B			
Group A			6
PSY	3300	Helping Skills (3)	
PSY	3301	Theories of Counseling (3)	
		Or	
Group B (select 2 with labs)			8
PSY	3350	Experimental I: Learning (3)	
PSY	3350L	Experimental I: Lab (1)	
PSY	3355	Health Psychology (4)	
PSY	4460	Physiological Psychology (3)	
PSY	4460L	Physiological Psychology Lab (1)	
		Total semester hours	49-51

PUBLIC RELATIONS (see Mass Communication)

RADIOLOGY TECHNOLOGY DEGREE PROGRAM

Offered by the Robert Packer Department of Health Sciences and Physical Activities
Professor Biblehimer, Sheehe (chairperson)
Associate Professors Evans, Garrett, Maisner, McGuire, Seigart, Wright, K.
Assistant Professors Materese, McEwan, Schintzius
Instructors Falk, Hanlon, Vosburgh

Radiographers (radiology practitioners) are valued members of the healthcare team involved in imaging body structures and organs, utilizing a variety of procedures and sophisticated equipment. Advanced opportunities in computed tomography (CT), cardiovascular interventional technology, magnetic resonance imaging (MRI), ultrasound, nuclear medicine, and radiation therapy are available to the radiographer.

Radiologic Technology is a two-year degree program offered through the Mansfield University Health Sciences Department and accredited by the Joint Review Committee on Education in Radiologic Technology. The program coordinates academic study with clinical experience during four semesters as well as two summers. Through a blend of classroom and clinical training, students learn radiographic equipment operation, patient positioning techniques, radiation safety, and patient care. All professional courses are taught in modern up-to-date college and clinical affiliate classrooms and laboratories. Clinical education includes extensive clinical experience in the Radiology Department of Robert Packer Hospital in Sayre, Pennsylvania.

Radiology students begin their first semester studies on the university campus. Other course work and clinical experiences, for the remainder of the program, are conducted at the clinical site in Sayre, Pennsylvania.

Program graduates are eligible to sit for the certification examination of the American Registry of Radiologic Technologists (ARRT). Certified Radiographers may use the letters AR.T. after their names. ARRT certification satisfies most state radiographer licensure laws.

The majority of graduates are employed by hospitals and clinics. However, individuals may choose to work for private companies or in industry. Employment opportunity trends

indicate an open job market in all phases of radiologic technology that will continue into the future.

Program graduates have the option to obtain a Baccalaureate Degree from Bloomsburg University. Under the terms of an articulation agreement between Mansfield University and Bloomsburg University, graduates from the Mansfield University Radiologic Technology Program are guaranteed admission, with advanced standing at the junior level, to Bloomsburg University.

Program Mission

The mission of the Mansfield University Radiology Technology Program is to develop highly skilled, competent diagnostic radiographers. These radiographers must possess skills associated with the profession of radiologic technology including technical skills related to positioning patients for radiographic procedures, utilizing radiation protection, practices, formulating exposure techniques, and evaluating radiographic images. They must also demonstrate excellence in patient care and communication, critical thinking skills and a high regard for medical ethics.

Graduates will also demonstrate familiarity with specialized radiologic modalities including Magnetic Resonance Imaging (MRI), Nuclear Medicine, Vascular Interventional Radiography, Ultrasound, CT Scanning and Radiation Therapy.

By providing a high quality academic curriculum with associated laboratories, and a guided systematic approach to clinical experience, the faculty strives to produce graduates who become effective members of today's health care team.

Program Goals

To develop students with skills in the technical aspects of producing and evaluating radiographs.

To develop students with skills in communication, patient care, critical thinking and use of medical ethical concepts.

To provide the health care community with competent, entry-level diagnostic radiographers.

Students must meet all clinical agency health requirements. These may include specific immunizations, urine drug testing, and a respirator fit test. Students will be expected to cover the costs of immunizations and urine drug testing.

The Mansfield University Radiologic Technology program endeavors to comply with the Americans With Disabilities Act and with University Policies regarding students with disabilities. Every effort will be made to provide reasonable accommodation for qualified students with disabilities who are able to perform the essential functions of our academic program in Radiologic Technology. Students who are accepted into the program, and then discovered to be unable to perform these essential functions (with or without accommodation) may not be able to complete the program. Graduates who complete the program but are unable to perform certain competencies may experience significant roadblocks to, and in, the employment setting.

PROGRAM REQUIREMENTS: Radiology Technology (A.A.S.):67 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BSC	1121*	Human Anatomy & Physiology I	4
BSC	1122*	Human Anatomy & Physiology II	4
CIS	1103*	Introduction to Microcomputers	3
COM	1101	Oral Communication	3

ENG	1112	Composition I	3
MA	xxxx*	Math choice*125, 128, 165, 170 or 231	3-4
PHL	1191	Ethical Issues in Allied Health Care	3
PHY	1165	Physics for the Allied Health Sciences	3
PSY	1101*	Introduction to General Psychology	3
SOC	1101*	Introduction to Sociology	3
XRT	1101	X-Ray Technology I	3
XRT	1102	X-Ray Technology II	3
XRT	1103	X-Ray Technology III	5
XRT	1104	X-Ray Technology IV	3
XRT	1105	X-Ray Technology V	3
XRT	1106	X-Ray Technology VI	4
XRT	2203	X-Ray Physics	3
XRT	3301	Clinical Practicum I	2
XRT	3302	Clinical Practicum II	2
XRT	3303	Clinical Practicum III	2
XRT	3304	Clinical Practicum IV	3
XRT	3305	Clinical Practicum V	2
		Total semester hours	67-68

REGIONAL PLANNING (See Geography and Geology)

RESPIRATORY THERAPY DEGREE PROGRAM

Offered by the Robert Packer Department of Health Sciences and Physical Activities
Professor Biblehimer, Sheehe (chairperson)
Associate Professors Evans, Garrett, Maisner, McGuire, Seigart, Wright, K.
Assistant Professors Materese, McEwan, Schintzius
Instructors Falk, Hanlon, Vosburgh

The United Sates Bureau of Labor Statistics predicts employment of respiratory therapists will rise "faster than the average of all occupations" through 2010, with a projected growth of 21 to 35%. This two-year program is one of the oldest respiratory therapy programs in the nation with a reputation for a strong emphasis on clinical competence. Entering students spend their first semester on the Mansfield campus taking required general education courses. The following three semesters and intervening summer session consist of course work and clinical training at Robert Packer Hospital in Sayre. Clinical training at Robert Packer Hospital is supplemented by clinical experiences at St. Joseph's Hospital, Elmira, NY; Wilson Memorial Medical Center, Johnson City, NY; Troy Community Hospital, Troy, PA; Geisinger Medical Center, Danville, PA; and Crouse Irving Memorial Hospital, Syracuse, NY. The program is fully accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon recommendation of the Committee on Accreditation for Respiratory Care (CoARC).

The typical respiratory therapist travels about the hospital caring for newborn infants, children, adults, and the elderly. As a respiratory therapist, you are trained to perform patient assessment, interpret a variety of clinical information, and make decisions that

directly impact the patient's outcome. Therapists may choose to specialize in such areas as newborn or pediatric care, adult critical care, home care, cardiopulmonary diagnostic testing, patient transport, pulmonary rehabilitation, patient education, respiratory care education, or health care administration.

This program prepares the student for a variety of career options and has a record of 100% employment of its graduates. Graduates of this program are employed in hospitals, skilled nursing and rehabilitation facilities, home care businesses, physician's offices, medical equipment supply companies, and colleges and universities.

Graduates are eligible for the National Board of Respiratory Care (NBRC) entry-level certification examination. Graduates passing this exam receive the Certified Respiratory Therapist (CRT) credential and qualify for the examinations for the NBRC Registered Respiratory Therapist credential (RRT).

In addition to University academic requirements, all respiratory therapy students are subject to the following program academic requirements.

1. A grade of "C-" or better in both the BSC 1121 Human Anatomy & Physiology I and MA 128 College Algebra courses and a cumulative grade point average of 2.0 are prerequisites for enrollment in the first respiratory therapy courses offered in Sayre.
2. A grade of "C" or better must be achieved in all respiratory therapy courses.
3. If a "C-" or lower grade is received for a respiratory therapy course, it must be repeated.
4. Respiratory therapy courses may be repeated only once.
5. A student, who fails to achieve a grade of "C" or better in a respiratory therapy course after repeating the course, is prohibited from future enrollment in any respiratory therapy courses and is dismissed from the respiratory therapy program.
6. Required courses for the Respiratory Therapy degree are NOT included in the University Pass/Fail policy.
7. Requirements for the Associate in Applied Science degree in Respiratory Therapy must be completed within four years from the date the student is formally admitted to the program.

Students must meet all clinical agency health requirements. These may include specific immunizations, urine drug testing, and a respirator fit test. Students will be expected to cover the costs of immunizations and urine drug testing.

The Mansfield University Respiratory Therapy program endeavors to comply with the Americans With Disabilities Act and with University Policies regarding students with disabilities. Every effort will be made to provide reasonable accommodation for qualified students with disabilities who are able to perform the essential functions of our academic program in Respiratory Therapy. Students who are accepted into the program, and then discovered to be unable to perform these essential functions (with or without accommodation) may not be able to complete the program. Graduates who complete the program but are unable to perform certain competencies may experience significant roadblocks to, and in, the employment setting.

PROGRAM REQUIREMENTS: Respiratory Therapy (A.A.S.): 71 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BSC	1121*	Human Anatomy & Physiology I	4
BSC	1122*	Human Anatomy & Physiology II	4
CHM	1101*	Introduction to Chemistry	4
CIS	1103	Introduction to Microcomputers	3
COM	1101	Oral Communication	3
ENG	1112	Composition I	3

MA	1128	College Algebra	3
PHL	1191	Ethical Issues in Allied Health Care	3
PSY	1101*	Introduction to Psychology	3
RTH	1101	Fundamentals of Respiratory Care I	3
RTH	1102	Fundamentals of Respiratory Care II	4
RTH	1111	Pulmonary Function Testing	2
RTH	1112	Arterial Blood Gases	1
RTH	1199	Clinical Practicum I	2
RTH	2200	Clinical Practicum II	5
RTH	2209	Clinical Practicum III	3
RTH	2210	Clinical Practicum IV	5
RTH	2204	Pharmacology	2
RTH	2207	Pulmonary Disease	2
RTH	2108	Perinatal/Pediatric Respiratory Care	2
RTH	2111	Mechanical Ventilation	4
RTH	2112	Advanced Cardiopulmonary Care	3
SOC	1101*	Introduction to Sociology	3
		Total semester hours	71

SECONDARY EDUCATION DEGREE PROGRAMS

Offered by the Department of Education and Special Education

CERTIFICATION REQUIREMENTS: Mansfield University teacher education programs are approved by the Pennsylvania Department of Education (PDE) and nationally accredited by the National Council for Accreditation of Teacher Education (NCATE). Candidates for teaching certification in Pennsylvania must meet state requirements described in Chapter 354 regulations. A description of requirements, policies, and procedures for teacher certification can be found in the catalog section entitled, "Teacher Education Certification." See Page 59.

Secondary Education

The secondary education curriculum prepares students for middle school, junior high, and high school teaching. The curriculum is the combined responsibility of the Education and Special Education Department and the appropriate content area departments of the university. The program is based on the theme, "Teacher as Reflective Decision Maker," and provides students with depth in subject matter, preparation in instructional methodology, and a variety of field experiences culminating in student teaching in the senior year. Students in the program learn how to communicate subject matter clearly and effectively to promote secondary students' learning. Mansfield University offers secondary education degree programs in the following curricular areas: Biology, Chemistry, Earth and Space Science, English, French, German, Mathematics, Physics, Social Studies – Citizenship certification (with emphasis in History), and Spanish. Many education majors also pursue graduate studies after graduation.

See The Teacher Education Certification Section, Page 59, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.

PROGRAM REQUIREMENTS: SECONDARY EDUCATION

Specific course requirements for secondary education programs can be found in the sections for each content area department under the requirements for the B.S.E. degrees. (For example, the required courses in the secondary education Biology program are listed in the Biology Department section of the catalog under the heading "Biology Education B.S.E." degree requirements.)

SOCIAL WORK DEGREE PROGRAM

Offered by the Department of Social Work, Anthropology and Sociology
Professors Largey, Wooley
Associate Professors Sidell (chairperson)
Assistant Professors Keller, Madigan, Mansfield

Social Work

Mansfield University's Social Work Program is accredited by the Council on Social Work Education (CSWE) at the Baccalaureate level. This national accreditation ensures that the quality of the program merits public confidence and meets the highest scrutiny available in Social Work education.

The mission of the Mansfield University Social Work Program is to provide comprehensive preparation for competent entry-level social work practice and/or graduate study. This program is dedicated to providing an academically challenging curriculum infused with optimum learning opportunities that is grounded in the liberal arts education. The generalist social work model is used to integrate and apply the knowledge, values, and skills of the social work profession and to engage in ethical practice with diverse client systems, including social and economic justice, in a variety of service settings. Within a global context, the Social Work Program is focused on providing a rural perspective, based on the location of Mansfield University.

Social Work Program goals are to:

1. prepare baccalaureate social work graduates with the knowledge, values, and skills for competent, ethical generalist practice with diverse client systems
2. provide an academically challenging curriculum that addresses and models the principles, values and ethics that serve as a foundation for all social work practice
3. prepare graduates who are committed to alleviating social and economic injustice
4. prepare graduates who have a commitment to continued personal and professional development and to provide leadership to the profession, particularly in rural settings
5. contribute to the social work profession through professional development and leadership activities that promote competent social work practice

Objectives of Social Work Program

Graduates of Mansfield University's Social Work Program will demonstrate an ability to:

1. Apply critical thinking skills within the context of professional social work practice (EP 3.0.1).
2. Understand the value base of the profession and its ethical standards and principles, and practice accordingly (EP 3.0.2).
3. Practice without discrimination and with respect, knowledge, and skills related to clients' age, class, color, culture, disability, ethnicity, family structure, gender, marital status, national origin, race, religion, sex, and sexual orientation (EP 3.0.3).

4. Understand the forms and mechanisms of oppression and discrimination and apply strategies of advocacy and social change that advance social and economic justice (EP 3.0.4).
5. Understand and interpret the history of the social work profession and its contemporary structures and issues (EP 3.0.5).
6. Apply the knowledge and skills of generalist social work practice with systems of all size in both rural and urban settings (EP 3.0.6).
7. Use theoretical frameworks supported by empirical evidence to understand individual development and behavior across the life span and the interactions among individuals and between individuals and families, groups, organizations, and communities (EP 3.0.7).
8. Analyze, formulate, and influence social policies (EP 3.0.8).
9. Evaluate research studies, apply research findings to practice, and evaluate their own practice interventions (EP 3.0.9).
10. Use communication skills differentially across client populations, colleagues, and communities (EP 3.0.10).
11. Understand the appropriate use of supervision and consultation in social work practice (EP 3.0.11).
12. Function within the structure of organizations and service delivery systems and seek necessary organizational change (EP 3.0.12).
13. Evaluate their commitment to social work practice and continued personal and professional development to advance the profession (EP 3.2).

Faculty of Mansfield University's Social Work Program will:

14. Continue to engage in scholarly activities (EP 3.2).
15. Accept leadership roles in professional organizations and in the community (EP 3.2).

Formal admission to the Social Work Program is obtained by applying to the university through the Office of Admissions or completing the appropriate petitions requesting to major in Social Work. Throughout their professional studies, students are expected to demonstrate the required academic and professional performance for continuation in the Social Work Program. First, the student completes three one-hour courses that facilitate an orientation to the profession. Second, prior to enrolling in SWK 3300 or SWK 3315, the student completes an "Intent to Continue" form that must be approved and signed by the Social Work major's advisor. Finally, before the major enrolls in their first practice class (SWK 3350, SWK 3351, SWK 3352, or SWK 3353), the student applies for candidacy into the Social Work program. The completed candidacy application is reviewed by the Faculty Evaluation Committee and must be approved before practice courses are taken. The student is evaluated on the candidacy application, the record of grade achievement (evidenced by a cumulative QPA of 2.50 or greater), evidence of professional commitment and participation in the field of Social Work, and the adherence to the National Association of Social Workers' Code of Ethics.

Prior to enrolling in Field Education and Field Seminar (SWK 4452 and SWK 4453), an application for Field Education must be completed by the student and approved by the Faculty Evaluation Committee. The student is evaluated on their record of grade achievement in practice courses (students who have any grade below a C+ in SWK 3350, SWK 3351, SWK 3352 must address the deficits in an interview with the Field Director), evidence of continued professional commitment and participation in the field of Social Work, and evidence of continued commitment to the National Association of Social Workers' Code of Ethics.

Students admitted to the program may not receive credit toward the BSW degree for life experience or previous work experience. Internship credits received in associate degree programs may not be applied towards the BSW Field Education requirements.

BSW program graduates begin their careers in a variety of public and private social service agency settings such as, child welfare, mental health, drug and alcohol programs, the aging, hospitals, nursing homes, neighborhood centers, and day care centers. Many enter graduate schools of Social Work where they may apply for advanced standing based on the accredited status of this program. Advanced standing allows students to complete an M.S.W. in one calendar year rather than two, if attending classes full-time. Additionally, accreditation by the Council on Social Work Education provides access to licensing examinations in those states that regulate social work practice at the baccalaureate level.

PROGRAM REQUIREMENTS: Social Work, (B.S.W.) 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ANH	1101*	Cultural Anthropology	3
BSC	1104*	Human Biology	4
PSY	1101*	Introduction to General Psychology	3
SOC	1101*	Introduction to Sociology	3
SOC	1121	Contemporary Social Problems	3
SOC	2232	American Family Systems	3
SOC	3307	Social Research I:Research Design & Data Collection	3
SWK	2251	Introduction to Social Work	3
SWK	2247	Social Work Program Orientation	1
SWK	2248	Social Work Values and Ethics	1
SWK	2249	Professional Communication Skills	1
SWK	3300	Human Behavior and the Social Environment	3
SWK	3308	Evaluation Research	3
SWK	3315	Evolution of Social Welfare in America	3
SWK	3330	Social Policy	3
SWK	3350	Social Work Practice with Small Groups	3
SWK	3351	Social Work Practice with Communities and Organizations	3
SWK	3352	Social Work Practice with Families	3
SWK	3353	Social Work Practice with Individuals	3
SWK	4452	Field Education	12
SWK	4453	Field Seminar	3
		Total semester Hours	67

SOCIOLOGY AND ANTHROPOLOGY DEGREE PROGRAM

Offered by the Department of Social Work, Anthropology and Sociology
Professors Largey, Wooley
Associate Professors Sidell (chairperson)
Assistant Professors Keller, Madigan, Mansfield

Sociology is the scientific study of human social behavior. Sociologists study the processes and patterns of individual and group interaction, the forms of organization of social groups, the relationships among them, and group influences on individual behavior. Focus is given to the understanding of group or other collective factors in human behavior.

Anthropology is the study of humankind. To incorporate all aspects of the human experience, anthropology has four major subdisciplines: Physical Anthropology, the study of the biological evolution of humans; Archaeology, the study of the evolution of culture; Linguistic Anthropology, the study of human languages; and Cultural Anthropology, the study of the variations and similarities of human behavior cross-culturally. The department offers introductory courses in all four subdisciplines but the major focus is in cultural anthropology.

The major in Sociology/Anthropology prepares students for a variety of careers in our increasingly multi-cultural society through critical thinking and evaluation, and appropriate research methods and analysis. The major is especially strong in social science research methods for which there is an ample job market. Students are encouraged to choose a concentration in either Sociology or Anthropology, but a broad based, liberal education in both and interdisciplinary studies outside the department is strongly recommended. The program is designed to allow students maximum flexibility to pursue their interests and career goals and combines easily with minors in other disciplines.

A bachelor's degree prepares students for entry-level positions in marketing, political survey analysis, applied human relations in both the public and private sector, and research organizations. In addition, a concentration in Anthropology prepares students for employment in archaeology and the many organizations which hire anthropologists for applied human relations work with diverse cultures such as refugee and immigrant communities. The degree also prepares students for graduate work in either Sociology or Anthropology, and is an excellent background for advanced degrees in many other disciplines.

The department also offers the following minors: Anthropology, African-American Studies, Gerontology, Social Welfare and Sociology.

PROGRAM REQUIREMENTS: Sociology/ Anthropology (B.A.): 120 s.h.
(*courses with asterisk may also satisfy General Education requirements)

ANH	1101*	Cultural Anthropology	3
SOC	3307	Social Research I	3
SOC	3308	Social Research II	3
ANH	4410	Ethnographic Field Methods	3
ANH	4480	Anthropological Theory	
		or	3
SOC	4480	Sociological Theory	
ANH	4490	Field Study	

		or	6
SOC	4497	Independent Study	
PHL	2230*	Introduction to Logic	3
SOC	1101*	Introduction to Sociology	3
ANH/SOC	1000/2000	Electives	9
ANH/SOC	3000/4000	Electives	9
3000/4000		Humanities or Social Science Electives	6
		Total semester hours	51

SPANISH DEGREE PROGRAMS

Offered by the Department of Languages and Literature
Professors Pifer, Sanders (chairperson), Sornberger
Associate Professors Barton, Blanco, Doerksen, Harris, Holtman, Murphy, Rashidi, Sullivan-Blum, Ulrich, Washington
Assistant Professors Arango-Keeth, Keeth, Oyallon

The Languages and Literature Department offers B.A. and B.S.E. degrees in French, German, and Spanish. (See The Teacher Education Certification Section, Page 59, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.) The opportunity to complete basic through intermediate Russian is also available. By graduation students will have taken at least 34 semester hours in their foreign language major. These include courses in structure, phonetics and pronunciation, culture and civilization, and literature. Some students complete dual majors and many opt for minors; the latter are available in French, German, Spanish, and Latin American Studies, all of which can prove to be an employment advantage. This is only natural in an ever more interdependent world where the ability to function in international communications is at a premium. The influence of Hispanic culture is growing in the U.S. while French is still spoken in many countries and German has wide application, especially in Europe.

We strongly encourage students to participate in Study Abroad programs and believe that such participation should be part of the preparation of all aspiring foreign language teachers. But the benefits accrue as well to others who avail themselves of such an opportunity: they not only have a better understanding of other cultures but are in a stronger position to use the knowledge they have acquired in the pursuit of their careers. To date, students have taken part in programs in Ecuador, France, Germany, Mexico, Spain and Russia. Mansfield University has an exchange program with Volgograd State University in Russia, with Freidrich-Schiller Universität in Germany, and has initiated a study abroad program with the Universidad Nacional in Costa Rica.

The foreign language laboratory has booths where students practice listening, comprehension and speaking skills. This facility is also equipped with several computer stations and has satellite receiver capability. In classrooms too, videos, slides, and maps are presented in various courses to enhance the learning/cultural environment and help provide a background for the appropriate language.

Foreign Language study is useful or necessary in various careers in government agencies, and provides an expertise often called upon in many areas of business, travel and tourism, journalism, criminal justice administration, geography, history, communications, political science, social work, and education.

The Languages and Literature Department also offers minors in French, German, Spanish and Latin American Studies.

PROGRAM REQUIREMENTS: Spanish (B.A.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

SPA	2201*	Intermediate Spanish I	3
SPA	2202*	Intermediate Spanish II	3
SPA	2205*	Pronunciation and Phonetics	1
SPA	3305*	Spanish Conversation and Composition	3
SPA	3306*	Culture and Civilization of Spain	3
SPA	3307*	Culture and Civilization of Latin America	3
SPA	3320*	Advanced Spanish Structure	3
SPA	3330*	Survey of Spanish Literature I	
		or	3
SPA	3331*	Survey of Spanish Literature II	
SPA	3340*	Spanish-American Literature I	
		or	3
SPA	3341*	Spanish-American Literature II	
SPA	xxxx	Spanish Electives	9
		Total semester hours	34

PROGRAM REQUIREMENTS Spanish Education (B.S.E.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ED	1102	Introduction to Education	3
ED	2205*	Educational Psychology	3
ED	3260	Assessment in Education	3
ED	3310	Content Area Reading and Writing	3
ED	3311	Teaching Secondary Foreign Language	3
ED	3320	Observation and Participation – Secondary	3
ED	4400	Student Teaching	12
ED	4460	Professional Seminar	2
HST	2201*	American History through the Civil War	
		or	3
HST	2202*	American History- Reconstruction to the Present	
PSY	1101*	Introduction to General Psychology	3
SPA	2201*	Intermediate Spanish I	3
SPA	2202*	Intermediate Spanish II	3
SPA	2205*	Pronunciation and Phonetics	1
SPA	3305*	Spanish Conversation and Composition	3
SPA	3306*	Culture and Civilization of Spain	3
SPA	3307*	Culture and Civilization of Latin America	3
SPA	3320*	Advanced Spanish Structure	3
SPA	3330*	Survey of Spanish Literature I	
		or	3
SPA	3331*	Survey of Spanish Literature II	
SPA	3340*	Spanish-American Literature I	
		or	3
SPA	3341*	Spanish-American Literature II	
SPA	xxxx	Spanish Electives	9
SPE	3275	Inclusion of Diverse Learners	3
		Total semester hours	75

SPECIAL EDUCATION DEGREE PROGRAM

Offered by the Department of Education and Special Education
Professors: Cleland, Straub, Brucklacher, Burns (chairperson)
Associate Professors: Benjamin, Fuller, Floyd (assistant chairperson), Lucero
Assistant Professors: Carico, Dale, Hammann, Minetola Smith, Werner-Burke
Instructor: Moore

CERTIFICATION REQUIREMENTS: Mansfield University teacher education programs are approved by the Pennsylvania Department of Education (PDE) and nationally accredited by the National Council for Accreditation of Teacher Education (NCATE). Candidates for teaching certification in Pennsylvania must meet state requirements described in Chapter 354 regulations. A description of requirements, policies, and procedures for teacher certification can be found in the catalog section entitled, "Teacher Education Certification." See Page 59.

The special education program prepares students to work with exceptional individuals through prescriptive teaching and practicum courses. Students who complete the special education program receive a Bachelor of Science in Education degree and a Pennsylvania Instructional 1 teaching certificate. This comprehensive certificate allows students to teach children from kindergarten through 12th grade (K-12) who are disabled in the areas of mental retardation, emotional disturbance, autism, physical disability, learning disability and brain injury. Many special education majors also pursue graduate studies after obtaining their undergraduate degree.

PROGRAM REQUIREMENTS: Special Education (B.S.E.) 120 s.h.
(*courses with asterisk may also satisfy General Education requirements)
(**pre-gate course – see "Teacher Education Certification" section)

PSY	1101*	Introduction to General Psychology	3
PSY	3292*	Child Psychology	3
SPE	1101**	Introduction to Special Education	3
ED	1102**	Introduction to Education	3
ED	2205**	Educational Psychology	3
SPE	3270	Mentally and Physically Disabled	3
SPE	3275	Inclusion of Diverse Learners	3
SPE	3280	Children in Need of Emotional Support	3
SPE	3290	Learning Disabilities	3
SPE	3300	Curriculum Development Adjustment	3
SPE	3351	Behavior Management	3
SPE	3370	Early Childhood Disabilities	3
SPE	3380	Assessment in Special Education	3
ELE	3383	Teaching Elementary Reading and Literature I	3
ELE	3384	Teaching Elementary Mathematics	3
SPE	3390	Methods for Individuals with Mild Disabilities	3
SPE	4420	Observation and Participation – Special Education	3
SPE	4440	Methods for Individuals with Moderate/Severe Disabilities	3
SPE	4400	Student Teaching	12
SPE	4460	Professional Seminar	2
		Total semester hours	68

PROGRAM REQUIREMENTS: Special Education (B.S.E.) with second certification in Elementary Education 135 s.h.

(*courses with asterisk may also satisfy General Education requirements)
(**pre-gate course – see "Teacher Education Certification" section)

SPE	1101**	Introduction to Special Education	3
PSY	1101*	Introduction to General Psychology	3
ED	1102**	Introduction to Education	3
ED	2205**	Educational Psychology	3
ELE	2220**	Child Development	3
SPE	3270	Mentally and Physically Disabled	3
SPE	3275	Inclusion of Diverse Learners	3
SPE	3280	Children in Need of Emotional Support	3
SPE	3290	Learning Disabilities	3
SPE	3300	Curriculum Development Adjustment	3
SPE	3351	Behavior Management	3
SPE	3370	Early childhood Disabilities	3
SPE	3380	Assessment in Special Education	3
ELE	3383	Teaching Elementary Reading and Literature I	3
ELE	3384	Teaching Elementary Mathematics	3
ELE	3386	Teaching Elementary Social Studies	3
ELE	3387	Teaching Elementary Science	3
SPE	3390	methods for Individuals with Mild Disabilities	3
ELE	3395	Creative Experiences in Elementary Teaching	3
ELE	4403	Teaching Elementary Language Arts	3
SPE	4420	Observation and Participation – Special Education	3
ELE	4425	Teaching Elementary Reading and Literature II	3
SPE	4440	Methods for Individuals with Moderate/Severe Disabilities	3
SPE	4400	Student Teaching	12
SPE	4460	Professional Seminar	2
		Total Semester Hours	83

TRAVEL AND TOURISM DEGREE PROGRAM

Offered by the Department of Business and Economics
Professors Kutty, Solan, Yacovissi
Associate Professors Carpenter, Gaballa, Ghods, Mitchell, Welch (Chairperson)
Assistant Professor Havalchak

The Travel and Tourism Program is the only one of its kind in the state and one of only a few in the nation. It combines courses in business, management, travel and tourism. It is excellent preparation for executive track careers in the travel, tourism, hospitality and leisure professions. Opportunities include tourism promoter, international or domestic travel and tourism agency, convention and special events planner and manager, destination marketer, hotel sales and marketing, tour operations and management, convention and visitors bureaus, resort management, car rental programs, and employment with the airlines and airports.

PROGRAM REQUIREMENTS: Travel and Tourism Concentration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ACC	1110	Principles of Accounting I	3
ACC	1111	Principles of Accounting II	3
BUS	2230	Management Principles	3
BUS	3330	Marketing	3
CIS	1103	Introduction to Microcomputers	
		or	3
CIS	2203	Software for Business Applications	
MA	1125*	Introductory Statistics I	3
TRT	1102	Introduction to Travel and Tourism	3
TRT	2201	Computerized Reservations, Ticketing, Travel Agency Operations	3
TRT	3300	The Travel Consumer	3
TRT	3321	World-Wide Destinations/Attractions	3
TRT	3322	Travel-Tourism Site Development	3
TRT	4410	Topical Seminar in Travel-Tourism	3
TRT	4430	Tourism Wholesalers and Suppliers	3
TRT	4480	Contemporary Issues in Travel and Tourism	3
TRT	xxxx	Electives	6
XXX	xxxx	Major Related Electives (ACC,BUS,ECO)	12
		Total semester hours	60

PROGRAM REQUIREMENTS: Travel and Tourism (A.S.): 60 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ACC	1110	Principles of Accounting I	3
ACC	1111	Principles of Accounting II	3
BUS	2230	Management Principles	3
BUS	3330	Marketing	3
CIS	1103	Introduction to Microcomputers	
		or	3
CIS	2203	Software for Business Applications	
MA	1125*	Introductory Statistics I	3
TRT	1102	Introduction to Travel and Tourism	3
TRT	2201	Computerized Reservations, Ticketing, Travel Agency Operations	3
TRT	3321	World Wide Destinations and Attractions	3
TRT	xxxx	Elective	6
XXX	xxxx	Major Related Electives	6
		Total semester hours	39

MINORS:

Accounting Minor: 18 s.h.
PROGRAM REQUIREMENTS

ACC	1110	Principles of Accounting I	3
ACC	1111	Principles of Accounting II	3
ACC	3310	Intermediate Accounting I	3
ACC	3315	Managerial Accounting	
		or	3
ACC	3350	Cost Accounting I	
and 6 credit hours from the following:			
ACC	3311	Intermediate Accounting II	3
ACC	3314	(CIS) Automated Accounting Systems	3
ACC	3320	Advanced Accounting I	3
ACC	3351	Cost Accounting II	3
ACC	4400	Auditing	3
ACC	4475	International Accounting	3
BUS	4410	Business Law I	
		or	
ECO	1101	Principles of Macroeconomics	3
		or	
ECO	1102	Principles of Microeconomics	

African-American Studies Minor: 18 s.h.:
PROGRAM REQUIREMENTS

The African-American minor is designed for students interested in the literary, historical, artistic, and sociological significance of African-American culture. It is a structured and interdisciplinary course of study.

6 s.h. from the following:			
ENG	2220*	Special Topics in Literature	3
ENG	3305*	Comparative Literature	3
ENG	3327	African American Literature	3
HST	3310	Afro-American Experience	3
HST	3388	History of Africa	3
Social Sciences - 6 credit hours from the following:			
ANH	3308	Sub-Sahara Africa	3
SOC	2200	American Minorities	3
SOC	3306	Interracial Seminar	3
Choose 3 credit hours from the following:			
ENG	4401*	Seminar in English Studies	3
HST	4452	South Africa: From Cape Colony to Apartheid	3
HST	4496*	Seminars on Selected Topics	3
Any 4497 or 4000 level course designated as an African or African-American Capstone course.			
3 credit hours of electives from the following:			
ARH	3320	Art of Africa and Oceania	3
BUS	3310	Managing Diversity	3
CJA	3261	Community Policing	3
HST	3304	History of the Civil War and Reconstruction	3

MU	2201	Introduction to Jazz	3
MU	3301	World Musics	3
SPE	3275	Inclusion of Diverse Learners	3
SPE	3330	Cultural Diversity in Special Education	3
SWK	2201	African-Americans: an Inclusive View	3

or any course designated as an African-American course listed above not used to meet requirements. (*when offered as an African-American topic)

Anthropology Minor: 18 s.h.
PROGRAM REQUIREMENTS

The Anthropology minor is designed to complement majors in the social sciences, humanities, and professional studies which train students to work with people who have backgrounds different from their own. Interest, however, is also a good reason.

ANH1	1101	Cultural Anthropology	3

6 credit hours from 1000 & 2000 level ANH courses by advisement
9 credit hours from 3000 & 4000 level ANH courses by advisement

Art HISTORY Minor: 18 s.h.
PROGRAM REQUIREMENTS

A minimum of 18 to a maximum of 24 credits constitutes a minor.

ARH	1101	Introduction to Art	3

15 S.H. from the following

ARH	3321	Ancient & Medieval Art	3
ARH	3322	Art of the Renaissance	3
ARH	3323	Baroque and Rococo Art	3
ARH	3324	Native Arts of the Americas	3
ARH	3329	History of African American Art	3
ARH	3330	American Art	3
ARH	3331	History of Modern Art	3
ARH	4401	Cultural Origins of Art (taught in Europe)	3
ARH	4408	Art and Mythology of Ancient Greece	3
ARH	4410	Women in Ancient Greek Art	3
ARH	4497	Independent Study	3
ART	3300	Visual Studies in Aesthetic Experiences	3

Biology Minor: 20 s.h.
PROGRAM REQUIREMENTS

The minor in biology is designed to broaden and expand the knowledge of students especially those in biology-related curricula. The requirements for a minor are a total of at least 20 hours of semester credit.

BI	1110	Zoology	4
BI	1130	Botany	4
BI	3370	Cell Biology	4
BI	xxxx	Biology Electives (2000 level and higher)	8

Business Administration Minor: 18 s.h.
PROGRAM REQUIREMENTS

ACC	1110	Principles of Accounting I	3
BUS	1130	Introduction to Business and Management	3
BUS	2230	Management Principles	3
BUS	3301	Introduction to Finance	3
BUS	3330	Marketing	3

and 3 credit hours by advisement

Canadian Studies MINOR: 18 s.h.
PROGRAM REQUIREMENTS

CDN	1101*	Introduction to Canada	3
CDN	4490	Selected Topics in Canadian Studies	
		or	
CDN	4450	Internship	3
Directed discipline related elective ** (Art History, English, French, History, Philosophy Or Women's Studies)			3
Directed discipline related elective ** (Anthropology, Business, Communications, Economics, Geography, Journalism, Political Science, Social Work, Travel and Tourism)			3
Open Electives **			6
		Total Semester Hours	18

(*Also satisfies General Education Group I requirements. ** Must contain at least 30% Canadian content or 30% of final grade must be based on a Canadian research project)

Chemistry Minor: 22-24 s.h.
PROGRAM REQUIREMENTS

The department of Chemistry and Physics offers a minor in chemistry to all interested persons who fulfill the basic requirements of the programs. The minor, while not a degree program, is intended to permit students to develop their interest in chemistry and thereby broaden their background as they acquire marketable skills.

CHM	1111	General Chemistry I	4
CHM	1112	General Chemistry II	4
CHM	3301	Organic Chemistry I	4
CHM	3302	Organic Chemistry II	4
CHM	xxxx	Chemistry Elective (3300 or 4400 level, except CHM 4410, 4490, or 4497)	6-8

Communication Minor: 18 s.h.
PROGRAM REQUIREMENTS

A minor in communication is available for students who want to communicate effectively in a variety of situations, understand the theory of communication, and explore global diversity as they interact in interpersonal and organizational settings.

COM	3325	Interpersonal Communication	3
COM	3360	Organizational Communcation	3
COM	xxxx	Choice from: COM 2200, 2203, 3330, 3334, or 3336 as approved)	6
COM	xxxx	Choice from: COM 4400, 4401, 4425, 4440, or 4455 (as approved)	6

Computer Science Minor: 18 s.h.
PROGRAM REQUIREMENTS

The Computer Science minor provides a strong background in computation and programming for students majoring in a technical, scientific, or mathematical area. See also General Computing Minor and Information Systems minor.

CIS	1104	Computer Science I	3
CIS	2204	Computer Science II	3
CIS	3301	Data Structures	3
CIS	3330	Computer Organization	3

6 credit hours of CIS courses at upper level

Creative Writing Minor: 15 s.h.
PROGRAM REQUIREMENTS

15 credits minimum (beyond the required composition courses) to include:

ENG	2202	Creative Writing	3
ENG	3312	Introduction to Fiction Writing	
		Or	3
ENG	3314	Introduction to Poetry Writing	
ENG	4411	Advanced Fiction Writing	
		Or	
ENG	4412	Advanced Poetry Writing	
		Or	3
ENG	4414	Creative Non-Fiction Prose	
		Or	
ENG	4416	Novel Writing	

6 credit hours of creative writing electives

Criminal Justice Administration Minor: 18 S.H.
PROGRAM REQUIREMENTS

CJA	1100	Introduction to Criminal Justice	3
CJA	2200	Survey of Policing	3
CJA	2201	Survey of Corrections	3
CJA	xxxx	CJA Electives (upper level)	9

Economics Minor: 18 s.h.
PROGRAM REQUIREMENTS

ECO	1101	Principles of Macroeconomics	3
ECO	1102	Principles of Microeconomics	3
ECO	3301	Intermediate Macroeconomic Theory	3
ECO	3302	Intermediate Microeconomic Theory	3
ECO	xxxx	Economics Electives	6

Education Minor: 15 s.h.
PROGRAM REQUIREMENTS

The minor in education provides an overview of the field of education and of the dynamics of teaching and learning.

ED	1102	Introduction to Education	3
ED	2205	Educational Psychology	
		Or	
ELE	2220	Child Development	3
SPE	3275	Inclusion of Diverse Learners	3

6 s.h. of 3000/4000 coursework with any combination of ED, ELE, or SPE prefixes.

English Literature Minor: 18 s.h.
PROGRAM REQUIREMENTS

18 credits minimum (beyond the required composition courses) to include:

ENG	1130	Introduction to Literature Studies	3
ENG	3268	Survey of British Literature I	
		or	
ENG	3269	Survey of British Literature II	3
ENG	3278	Survey of American Literature I	
		or	3
ENG	3280	Survey of American Literature II	

9 credit hours of English Electives selected from ENG 2260 through 4401.

Environmental Studies Minor: 21 s.h.
PROGRAM REQUIREMENTS

The environmental studies minor allows students of all majors to engage in a fully interdisciplinary course of study focused on the relationship between people and the natural world. This enterprise is designed to deepen understanding of the humanities and the sciences and to suggest ways those disciplines can be integrated. This minor will also help students to be more effective citizens in a world where the earth's population of 6 billion is projected to double during their lifetimes and the demand for resources will increase.

GEG	1122	Environmental Issues	3
3 credits hours from the following			
BSC	1103	Environmental Biology	3
CHM	1103	Chemistry and the environment	3
GEL	1102	Environmental Geology	3
ES	3300	Humans in Nature	3
9 credit hours of electives distributed over three blocks (social, creative, and natural) at least 6 credit hours of which must be at the upper level			
ES	4497	Independent Study	3

Forensic Science Minor: 19 s.h.
PROGRAM REQUIREMENTS

The department of Chemistry and Physics offers a minor in forensic science to all interested persons who fulfill the basic requirements of the programs. The minor, while not a degree program, is intended to permit students to introduce relevant introductory chemistry, biochemistry and physics to give students sufficient background so that they can to understand their application in forensic science. In addition, the student will develop an understanding of the legal implications involved in evidence collection and presentation.

CHM	1110	Survey of Chemistry	4
SCI	1107*	Physical Science I	3
		OR	
SCI	1108	Physical Science II	3
SCI	1104*	Forensic Science	3
CJA	3336	Criminalistics	3
		OR	
CJA	3262	Investigation & Interrogation	3
CHM	3264	Chemical Methods in Forensic Science	3
PHY	3264	Physical Methods in Forensic Science	3

French Minor: 15 s.h.
PROGRAM REQUIREMENTS

FR	2201	Intermediate French I	3
FR	2202	Intermediate French II	3
FR	xxxx	French electives at the upper level	9

General Computing Minor: 18 s.h.
PROGRAM REQUIREMENTS

The General Computing minor provides a solid background in computing that is custom-tailored to the student's field of study. This minor is primarily intended for students in majors other than business, mathematics, and the sciences. See also Computer Science Minor and Information Systems Minor.

CIS	2203	Software for Business Applications	3
CIS	3303	Web Site Design	3
6 credit hours from the following			
CIS	1102	Visual Basic Programming	3
CIS	1103	Introduction to Microcomputers	3
CIS	1104	Computer Science I	3
6 additional credit hours in computer related courses chosen in consultation with the departmental advisor.			

Geography Minor: 18 s.h.
PROGRAM REQUIREMENTS

Three of the following four classes:

GEG	1101	World Regional Geography	3
GEG	1102	Human Geography	3
GEG	1111	Physical Geography	3
GEG	1122	Environmental Issues	3
		and	
GEG	xxxx	GEG electives (upper level)	9

Geology Minor: 18 s.h.
PROGRAM REQUIREMENTS

GEL	1102	Environmental Geology	3
GEL	1121	Physical Geology	3
GEL	xxxx	GEL electives (upper level)	12

German Minor: 15 s.h.
PROGRAM REQUIREMENTS

GER	2201	Introductory German I	3
GER	2202	Introductory German II	3
GER	xxxx	German electives at the upper level	9

Gerontology Studies Minor: 18 s.h.
PROGRAM REQUIREMENTS

The Gerontology minor is designed for students interested in working with the aging population. The interdisciplinary minor offers students exposure to the sociological, psychological, and social work aspects of aging.

SOC	1101	Introduction to Sociology	3
SWK	3320	Gerontology	3

SOC	3322	Sociology of Aging	3
PSY	3324	Adult and Development and Aging	3
SWK	3300	Human Behavior and the Social Environment	
		Or	
PSY	3290	Life Span Development	3
		Or	
PSY	4421	Death and Dying	
SWK	4497	Independent Study	
		Or	
PSY	4497	Independent Study	3
		Or	
SOC	4497	Independent Study	

History Minor: 18 s.h.
PROGRAM REQUIREMENTS

HST	1111	World Civilization to 1350	
		or	
HST	1112	World Civilization 1350-1900	3
		or	
HST	1113	World History since 1900	
HST	2201	United States History to 1877	
		or	3
HST	2202	United States History Since 1877	
HST	xxxx	HST electives (minimum 6 s.h. upper level)	12

Information Systems Minor: 18 s.h.
PROGRAM REQUIREMENTS

The Information Systems minor provides a strong background in office applications software and systems analysis for students majoring in business-related fields of study. See also Computer Science Minor and General Computing Minor.

CIS	1102	Visual Basic Programming	3
CIS	2203	Software for Business Applications	3
CIS	3303	Web Site Design	3
CIS	3310	Systems Analysis	3
CIS	4401	Management Information Systems	3
BUS	1130	Introduction to Business and Management	
		or	3
BUS	2230	Management Principles	

International Studies Minor: 21s.h.
PROGRAM REQUIREMENTS

ANH	1101	Cultural Anthropology	3
GEG	1101	World Regional Geography	3
PSC	2210	Introduction to International Relations	3
PSC	2212	Introduction to Comparative Politics	3
3 credit hours from the following			
HST	3366	Twentieth Century Europe	3
HST	3377	History of Latin America	3
HST	3387	History of East Asia	3

HST	3388	History of Africa	3
HST	4452	South Africa: From Cape Colony to Apartheid	3
HST	4471	History of Mexico and the Caribbean	3
HST	4487	Pacific Rim: History and the Contemporary World	3
6 credit hours from the following			
ANH	3301	World Cultures	3
ANH	3308	Sub-Sahara Africa	3
PSC	3312	Canada, Mexico, U.S.	3
PSC	4412	Third World Politics	3
PSC	4415	U.S. Foreign Policy	3
ECO	3333	International Economics	3

Latin American Studies Minor: 18 s.h.
PROGRAM REQUIREMENTS

PSC	3312	Canada, Mexico and The U.S.	3
HST	3376	Modern Latin America	
		or	3
SPA	3307	The Culture and Civilization of Latin America	

12 credit hours of electives from the following (choose four prefixes):
ANH 1101, 3301*, or 3350*
ARH 3323 or 3324
BUS 3333*, 4403*, 4404*, or 4422
ECO 2205* or 3333*
ENG 2220*, 3305*, or 4401*
HST 2232, 3375, 4415 or 4470
MU 3301*
PSC 2212*, 4412*, or 4415*
SOC 2200
SPA 3340, 3341, or 4400*
SPE 3330*
WS 3355
*25% Latin American content in course required in semester offered to apply to minor.

Marketing Minor: 18 s.h.
PROGRAM REQUIREMENTS

BUS	3330	Marketing	3
BUS	4415	Marketing Management	3
ECO	1101	Principles of Macroeconomics	
		or	3
ECO	1102	Principles of Microeconomics	
and 9 credit hours of electives from the following:			
COM	2210	Introduction to Public Relations	3
BUS	3332	Promotion in Marketing	3
BUS	3334	Marketing Research	3
BUS	3370	Salesmanship	3
BUS	4420	Topical Seminar/Marketing for Non-Profit Organizations	3
BUS	4421	Topical Seminar/Marketing Channels of Distribution	3
BUS	4422	Topical Seminar/International Marketing	3
BUS	4423	Topical Seminar/Industrial Marketing	3
BUS	4424	Topical Seminar/Sales Force Management	3
BUS	4425	Topical Seminar/Current Marketing Problems	3

Mathematics Minor: 17 s.h.
PROGRAM REQUIREMENTS

The minor in mathematics provides a strong background in mathematics but is flexible enough to be tailored to a variety of different majors. See also Statistics Minor.

MA	2231	Calculus I	4
MA	2232	Calculus II	4
MA	3314	Applied Probability and Statistics	3

6 credit hours of math courses at 2000 level or above.

Music Minor: 24 s.h.
PROGRAM REQUIREMENTS

The Music Department offers a Music minor for students in other majors with appropriate interest and aptitude. A live audition is required for admission to this program.

MU	2211	Basic Music I	3
MU	2212	Basic Music II	3
MU	2220	Western Music Until 1750	3
MU	2221	Classic and Romantic Music	3
MU	xxxx	Music electives excluding MU 101	6

4 credit hours in major performance area
2 credit hours in large ensemble.

Nutrition Minor 18 s.h.
PROGRAM REQUIREMENTS

The nutrition minor provides the student with a strong background in nutrition as related to the student's field of study. The minor is especially suited to students in health care fields other than nutrition, students who wish to work with eating disordered individuals, future educators and coaches, future journalists, and anyone else who may need a strong background in nutrition.

DIT	2211	Introduction to Nutrition	3
DIT	3305	Principles of Food Science	3
DIT	3314	Nutrition through the Life-Cycle	3
Three credit hours from the following:			
DIT	2220	Nutrition and Fitness	3
DIT	3300	Cultural Nutrition	3
DIT	3316	Community Nutrition	3
DIT	3325	Nutrition Education and Counseling	3
Six credit hours from the following:			
DIT	3330	Sports Nutrition	3
DIT	4401	Medical Nutrition Therapy I	3
DIT	4402	Medical Nutrition Therapy II	3
DIT	4417	Advanced Nutrition	3
DIT	4420	Nutrition Research Seminar	3

Offered by the Robert Packer Department of Health Sciences and Physical Activities.

Philosophy Minor: 18 s.h.
PROGRAM REQUIREMENTS
Eighteen semester hours in philosophy are required, with at least nine of these being at the upper division level.

Physics Minor: 21 s.h.
PROGRAM REQUIREMENTS
The department of Chemistry and Physics offers a minor in physics to all interested persons who fulfill the basic requirements of the programs. The minor, while not a degree program, is intended to permit students to develop their interest in physics and thereby broaden their background as they acquire marketable skills.

PHY	2210	General Physics I	4
PHY	2211	General Physics II	4
PHY	3311	Modern Physics I	3
PHY	3312	Modern Physics II	3
PHY	3315	Analog Electronics	4
PHY	xxxx	Physics Elective (300 or 400 level)	3

Political Science Minor: 18 s.h.
PROGRAM REQUIREMENTS
9 credit hours from the following

PSC	2201	Introduction to American Government	3
PSC	2210	Introduction to International Relations	
		Or	3
PSC	2212	Introduction to Comparative Politics	
PSC	xxxx	PSC electives (9 at the 3300 and/or 4400 level.	
Note PSC electives can Include cross-listed courses from other disciplines)			12

Pre-Law Minor: 18 s.h.
PROGRAM REQUIREMENTS
The specific program requirements are currently under revision. Please see Dr. Thomas Young, South Hall 315, for the current program requirements.

Psychology Minor: 21-22 s.h.
PROGRAM REQUIREMENTS
Minors are available in Psychology and Psychology of Human Development. The Psychology minor provides a general survey of the field. The Psychology of Human Development minor provides more focused study in areas of child, adolescent, or adult development.

PSY	1101	Introduction to General Psychology	3
PSY	3290	Life Span Development	3
PSY	3391	Abnormal Psychology	3
Select either Option A or B			
Option A (12 sh: two (2) of nine (9) courses below and any (2) PSY electives)			
PSY	3301	Theories of Counseling	3
PSY	3310	Social Psychology	3
PSY	3311	Small Group Process	3
PSY	3332	Psychology of Stress Management	3
PSY	3355	Health Psychology	3
PSY	4421	Death & Dying	3

PSY	4422	Psychology of Women	3
PSY	4430	Theories of Personality	3
PSY	4440	Psychology and Law	3
Option B (12-13 sh: MA 1125, either PSY 2201 or 2250, and any two (2) PSY electives			
MA	1125	Introduction to Statistics	3
PSY	2201	Tests & Measurements	
		or	4
PSY	2250	Experimental Design I	
PSY	xxxx	Psychology electives	6

Psychology of Human Development Minor: 18 s.h.
PROGRAM REQUIREMENTS

PSY	1101	Introduction to General Psychology	3
PSY	3290	Life Span Development	3
PSY	3391	Abnormal Psychology	3
6 credit hours from the following			
PSY	3292	Child Psychology	3
PSY	3321	Adolescent Psychology	3
PSY	3324	Adult Development and Aging	3
3 credit hours from the following			
PSY	2210	Psychology of Family Relations	3
PSY	2212	Human Sexuality	3
PSY	3310	Social Psychology	3
PSY	4421	Death and Dying	3
PSY	4422	Psychology of Women	
		Or	3
PSY	4430	Theories of Personality	

Regional Planning Minor: 18 s.h.
PROGRAM REQUIREMENTS

RPL	1102	Introduction to Regional Planning	3
RPL	3342	Land Use Policy	3
RPL	3380	Planning Seminar	3
And 9 credit hours from the following			
GEG	3270	Geographic Information Systems	3
GEG	3280	Cartography	3
GEG	3364	Geostatistics	3
GEG	4430	Modern Cartographic Techniques	3

Social Welfare Minor: 18 s.h.
PROGRAM REQUIREMENTS

The Social Welfare minor prepares students majoring in business, criminal justice administration, computer sciences, psychology, biology, art, nursing, and others who intend to work in social welfare systems to understand those systems. The minor offers information on organizations, cultures, policies, and services as viewed from a sociological, anthropological and social work perspective.

SOC	1101	Introduction to Sociology	3
		or	
ANH	1101	Cultural Anthropology	3

SOC	1121	Contemporary Social Problems	3
SWK	1101	Human Services	3
SWK	2241	Introduction to Social Work	3
SWK	3300	Human Behavior and the Social Environment	3
SWK	3315	(HST) Evolution of Social Welfare in America	3

Sociology Minor: 18 s.h.
PROGRAM REQUIREMENTS

The Sociology minor is especially recommended for Criminal Justice, Public Relations, Marketing, and Social Work majors.

SOC	1101	Introduction to Sociology	3
SOC	1121	Contemporary Social Problems	3
SOC	xxxx	SOC electives by advisement	12

Spanish Minor: 15 s.h.
PROGRAM REQUIREMENTS

SPA	2201	Intermediate Spanish I	3
SPA	2202	Intermediate Spanish II	3
SPA	xxxx	Spanish electives at the upper level	9

Statistics Minor: 15 s.h.
PROGRAM REQUIREMENTS

The minor in statistics provides a strong background in statistics useful in many disciplines. Students may tailor this minor to their interests by careful choice of courses. See also the Mathematics Minor.

12 credit hours from the following

MA	1125	Introductory Statistics I	3
MA	1126	Introductory Statistics II	3
MA	3301	Survey of Mathematical Models	3
MA	3308	Operations Research	3
MA	3314	Applied Probability and Statistics	3
MA	3315	Applied Regression Analysis	
		or	3
MA	3371	Mathematical Statistics I	

3 credit hours from the following

BI	3350	Ecology	3
BUS	3349	Quantitative Business Analysis	3
CIS	3306	Business Programming Concepts II	3
ECO	3305	Econometrics	3
ECO	3310	Business and Economic Forecasting	3
ECO	4405	Mathematical Economics	3
MA	1170	Fundamental Concepts of Calculus	3
NUR	3361	Introduction to Nursing Research	3
PSC	2235	Research Methods	3
PSY	2201	Tests and measurements	
		or	3
SOC	3308	Social Research II: Analysis Interpretation	

Studio Art Minor: 18 s.h.
PROGRAM REQUIREMENTS

A minor in Studio Art may be declared by non-art majors and art majors. A minimum of 18 to a maximum of 24 credits constitutes a minor.
Required courses are listed below.

ART	2240	2-Dimensional Design	3
ART	2244	3-Dimensional Design	3
ART	xxxx	Electives	3

Theatre Minor: 21 s.h.
PROGRAM REQUIREMENTS

THT	1110	Introduction to Theater	3
THT	2210	Stagecraft	3
THT	2212	Fundamentals of Acting I	3
THT	2214	Make-up	3
THT	3310	Fundamentals of Directing	3
THT	3312	Stage Lighting	
		or	3
THT	3313	Scene Design	
THT	3314	Play Production Practices	3

Travel and Tourism Minor: 15 s.h.
PROGRAM REQUIREMENTS

TRT	1102	Introduction to Travel-Tourism	3
TRT	4480	Contemporary Issues Travel-Tourism	3
TRT	xxxx	Travel and Tourism Electives (by advisement)	9

Women's Studies Minor: 18 s.h.
PROGRAM REQUIREMENTS

WS	1100	Introduction to Women's Studies	3
Choose one Humanities Course			
ENG	2220*	Special Topics in Literature (*when offered with Women's Studies content)	
		or	
ENG	4401	Seminar in Literary Studies (When offered with Women's Studies Content)	3
		or	
HST	2201	American History Through the Civil War	
		or	
MU	2205	Women in Music	
Social Sciences courses (3 credit hours – choose one of these three from ANH 2250, PSY 4422, COM 3334)			
ANH	2250	Anthropology of Gender	
PSY	4422	Psychology of Women	3
COM	3334	Gender and Communication	3
WS	4410	Seminar in Women's Studies	3

6 credit hours of women's studies electives selected through consultation with the Women's Studies advisor.

VIII. COURSE DESCRIPTIONS

*Courses marked with an * asterisk may satisfy General Education requirements. Be sure to consult with your advisor.*

ACCOUNTING

ACC 1110 PRINCIPLES OF ACCOUNTING I 3 cr.
Introduces the accounting cycle; balance sheet and income statement preparation; accounting for cash, receivables, inventory, property, plant, and equipment; current liabilities.

ACC 1111 PRINCIPLES OF ACCOUNTING II 3 cr.
A continuation of 110: long-term liabilities, owners equity of partnerships and corporations, and statement of cash flow. Introduces managerial accounting concepts, including manufacturing accounting and budgets, and financial ratio analysis. Prerequisite ACC 1110.

ACC 3310 INTERMEDIATE ACCOUNTING I 3 cr.
An intensive study of accounting principles and problems of fairly presenting a financial position; measurement of assets, liabilities; preparation of financial statements. Prerequisite: ACC 1111.

ACC 3311 INTERMEDIATE ACCOUNTING II 3 cr.
Further study of generally accepted accounting principles; corporate earnings per share, tax allocation, pensions, leases, inflation. Prerequisite: ACC 3310.

ACC 3314 (CIS) AUTOMATED ACCOUNTING SYSTEMS 3 cr.
An introduction to the development and implementation of an accounting information system. A real commercial system will be analyzed and then used by students to process accounting case studies. Prerequisites: ACC 1111, CIS 2203.

ACC 3315 MANAGERIAL ACCOUNTING 3 cr.
Examines management strategies to develop budgets and product costs and ways to control company costs and expenses. Prerequisite: ACC 1111.

ACC 3320 ADVANCED ACCOUNTING I 3 cr.
Examines partnerships, accounting, corporate mergers, and consolidated financial statements; non-profit accounting, foreign currency transactions, and other topics vary. Prerequisite: ACC 3311

ACC 3350 COST ACCOUNTING I 3 cr.
Explores budget planning, product costing, break-even and variance analysis, cost behavior, and cost allocation. Prerequisite: ACC 1111.

ACC 3351 COST ACCOUNTING II 3 cr.
A continuation of 3350. More cost behavior, decision models, regression analysis and linear programming applications, capital budgeting, economic order quantity, and ethical considerations are examined. Prerequisite: ACC 3350 or permission of instructor.

ACC 3380 TOPICAL SEMINAR 3 cr.
The study of selected topics in accounting and current issues in financial reporting such as: non-profit accounting, governmental accounting, international accounting, income tax legislation. Prerequisite: ACC 3311.

ACC 3390 INTRODUCTION TO FEDERAL TAX ACCOUNTING 3 cr.
Explores the application of the personal income tax law to the taxpayer as an individual and a business proprietor.

ACC 4400 AUDITING 3 cr.
A systematic process of objectively obtaining and evaluating evidence for the purpose of rendering an opinion and communicating the results to interested users. Prerequisite: ACC 3320

ACC 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

ANTHROPOLOGY

***ANH 1101 CULTURAL ANTHROPOLOGY 3 cr.**
Introduction to culture as a conceptional model and to the variations in behavior systems found among human societies. Cultural institutions are examined including the processes associated with their development and change.

***ANH 1102 PHYSICAL ANTHROPOLOGY: HUMAN EVOLUTION 3 cr.**
An introduction to human evolution with an emphasis on fossil evidence, genetic and cultural evolution up to Homo sapiens. Theoretical and methodological issues are covered in depth. Prerequisite: Biology 1101 strongly recommended.

***ANH 2250 ANTHROPOLOGY OF GENDER 3 cr.**
An introduction to the cultural diversity of gender roles with emphasis on the roles of women, gender bias, and cultural definitions of men and women. Contemporary gender issues are studied within a variety of cultural contexts.

ANH 3260 ARCHAEOLOGICAL METHODS 4 cr.
Course examines excavation techniques, description, analysis, and interpretation of archaeological sites. Students will be involved in ongoing archaeological research in the local area and will participate in both archaeological field testing and laboratory analysis

***ANH 3280 ANTHROPOLOGICAL LINGUISTICS 3 cr.**
Methods of analysis and description of language and ways in which human beings use their language. Of interest to students who wish to continue the study of linguistics as well as those in a variety of professions who wish to read with understanding linguistic literature in their own field. Cross listed with ENG-3281

ANH 3301 WORLD CULTURES 3 cr.
Comparative study of selected major cultural areas of the world. Institutional patterns characterizing the cultural complexes of Europe and Southwest Asia, South Asia, Southeast Asia, North and South America and Africa south of the Sahara will be examined. Prerequisite: permission of instructor.

ANH 3305 NATIVE NORTH AMERICANS: CULTURES 3 cr.
This course provides an overview of the major indigenous cultural areas in North America and an intense study of one representative nation from each culture area. The course examines traditional cultures and now the societies have changed and adapted since European contact to the present. ANH 1101 recommended but not required.

ANH 3308 SUB-SAHARA AFRICA 3 cr.
An in depth study of the diversity of African cultures south of the Sahara Desert. An overview of Sub-Saharan African cultures will be presented followed by detailed studies of representative cultures from each of the linguistic and cultural areas.

ANH 3350 SELECTED TOPICS SEMINAR 1-6 cr.
Review of a specialty area in anthropology or the study of a problem from an interdisciplinary position. May be taken for one through six credits.

ANH 4410 ETHNOGRAPHIC FIELD METHODS 3 cr.
Examines qualitative field work methods of participation and unstructured interviews. The student is introduced to him/herself as actor in social situations and analyzes campus life (small segments).

ANH 4440 ANTHROPOLOGY OF BELIEF SYSTEMS 3 cr.
This course explores how societies construct meaning through belief systems. Symbolic systems will be explored cross-culturally, including indigenous religion, witchcraft, magic, shamanism, and cultural spirituality. Major emphasis will be on anthropological theories of symbolic forms. Prerequisites: ANH 1101 and at least two upper level courses in anthropology or permission of instructor.

ANH 4480 ANTHROPOLOGICAL THEORY 3 cr.
A seminar on the history and development of anthropological thought from social evolution through post-processual theory. The course covers both macro and mid-range theories and current trends in the anthropological perspective. Prerequisites: Upper class standing in the anthropology/sociology major.

ANH 4490 FIELD STUDY 3-12 cr.
Supervised field work in any subdiscipline of anthropology: physical, archaeology, linguistic, or cultural anthropology. Individually arranged. Prerequisites: upper class standing in the anthropology tract of the sociology/anthropology major, or permission of the instructor.

ANH 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 – 3 credits at one time.

ART EDUCATION

ARE 2211 INTRODUCTION TO ART EDUCATION 3 cr.
This is a preparatory art education class that will focus on art curriculum, lesson plan design, familiarize students with the National and State Visual Arts Standards, developmental stages and methods of teaching and behavior management in the art classroom. Includes projects, discussions, and elementary and high school observations. Students will begin building a project file and teaching portfolio.

ARE 3343 ARTS FOR STUDENTS WITH DIVERSE NEEDS 3 cr.
An exploration of types of characteristics of children who are special: either gifted, physically/emotionally disabled, or culturally disadvantaged. Strategies for art experiences in both inclusive and self-contained classrooms. Prerequisite: ED 2205

ARE 3388 HISTORY AND PHILOSOPHY OF ART EDUCATION 3 cr.
Acquaints the student with social, historical, and philosophical developments in education and art education.

ARE 3390 ART CURRICULUM AND TEACHING IN ELEMENTARY SCHOOLS 3 cr.
Provides an historical and philosophical background in art education. Students experience in-depth lesson plan and curriculum writing. Students will observe in art classrooms and will teach K-8 under the guidance of the professor. Emphasis is placed upon developing methodology for motivation and classroom management in preparation for the semester of student teaching. Just have attained Junior status. Prerequisite: ARE 2211 or co-requisite: ED 2205.

ARE 3392 TEACHING ART IN THE ELEMENTARY GRADES 3 cr.
Examines the philosophy and principles of art education in the elementary school curriculum with experience in the development of self-expression through a variety of public school art materials and activities as a basis for understanding and evaluating children's art work.

ARE 3393 ART CURRICULUM AND TEACHING IN SECONDARY SCHOOLS 3 cr.
Provides in-depth experience in lesson plan writing and creating curriculum in art at the secondary level. Students have the opportunity to teach art at an area high school under the supervision of the professor with the cooperation of a high school art teacher. Emphasis is placed upon developing an understanding of motivation and classroom management in preparation for the semester of student teaching. Prerequisites: ARE 2211, ED 2205

ARE 3394 CURRICULUM DEVELOPMENT IN ART EDUCATION 2 cr.
Investigation of the concepts, attitudes, and values of art theory and practice as related to curriculum; a study of classroom problems and procedures in various teaching situations.

ARE 4400 STUDENT TEACHING 12 cr.
Provides practical experience in teaching art at the elementary and secondary levels under the guidance of a cooperating teacher. Observations and conferences scheduled by the departmental supervisor are held on a periodic basis. Enables students to apply knowledge and skills acquired in the Art Education program. ARE 4400 is required for students seeking certification to teach.

ARE 4403 ART EDUCATION SEMINAR 2 cr.
Art Seminar provides students with the opportunity to further exchange ideas, enhance critical dialect, and to participate in activities relevant to professional artist and art educators. In addition, students enrolled in Art Seminar will compile, focus, reflect, and organize their educational experience at Mansfield University into an electronic vita and professional portfolio. This course will further prepare Art Education majors for either graduate school or professional employment.

ART HISTORY

ARH 1101 INTRODUCTION TO ART 3 cr.
An approach to the dominant movements and ideas of the Western World as they evolved in visual arts from the cave art origins to the 20th Century systems.

ARH 1102 SURVEY OF ART 3 cr.
An intercultural, interdisciplinary approach to dominant movements and ideas as they evolved in visual arts. Examines philosophic commonality of purpose which becomes intertwined with man's record of history.

ARH 3320 ART OF AFRICA AND OCEANIA 3 cr.
The study of prehistoric and primitive art from the Paleolithic period: Africa, Asia, Australia, Europe, Mexico, the Americas, and the South Seas. Prerequisite: ARH 1101 or 1102.

ARH 3321 ANCIENT AND MEDIEVAL ART 3 cr.
Comprehensive study of architecture, sculpture, and painting from the ancient through Gothic periods; emphasis on aesthetic values and historical implications, iconographic and symbolic significance. Prerequisite: ARH 1101 or 1102.

ARH 3322 ART OF THE RENAISSANCE 3 cr.
Comprehensive study of architecture, painting, and sculpture in Italy, Flanders, Holland, Germany, England, France, and Spain with emphasis on the general characteristics of the Renaissance. Prerequisite: ARH 1101 or 1102.

ARH 3323 BAROQUE AND ROCOCO ART 3 cr.
A comprehensive study of painting, sculpture, and architecture from 1600 to 1750 in Italy, Flanders, Germany, Austria, Holland, Spain, France and England. Prerequisite: ARH 1101 or 1102.

ARH 3324 NATIVE ARTS OF THE AMERICAS 3 cr.
A survey of the native arts of North, Central, and South America during the pre-Columbian and historic periods. Painting, sculpture, architecture, and crafts will be examined.

ARH 3326 ORIENTAL ART 3 cr.
Study of art in China, India, and Japan in the areas of architecture, painting, pottery, sculpture, and the minor arts. Trace influences central to the development and spread of important styles and the relationship of art to the classics of Oriental aesthetics.

ARH 3327 HISTORY OF PRINTS 3 cr.
The history of printmaking and the significant influences of Eastern and Western cultures on the graphic processes. Prerequisite: ARH 1101 or 1102.

ARH 3328 HISTORY OF ARCHITECTURE 3 cr.
Study of architecture, styles, and methods of construction from the earliest civilizations to the present. Analyzes the outstanding contributions in architecture of the various cultures with emphasis on further development and influences, citing important examples and their architects. Prerequisite: ARH 1101 or 1102.

ARH 3329 HISTORY OF AFRICAN-AMERICAN ART 3 cr.
Survey of Early African art to contemporary African-American art, appraises the past and present performance of African-American artists and their contributions to American art history.

ARH 3330 HISTORY OF AMERICAN ART 3 cr.
Comprehensive study of the heritage of American art from the Limners and Artisans of colonial times through the 20th century in painting, architecture, and sculpture; emphasizing aesthetic values, movements, trends, and contributions of significant artists. Prerequisites: ART 1101, 1102.

ARH 3331 HISTORY OF MODERN ART 3 cr.
Comprehensive study of the development of modern art from 19th century neoclassicism through contemporary movements, emphasizing aesthetic values, historical implications, and contributions of significant artists. Prerequisites: ARH 1101 or 1102.

ARH 3332 THE ART OF ANCIENT EGYPT 3 cr.
A comprehensive study of architecture, sculpture, and painting in ancient Egypt from its prehistoric beginnings to the Christian era. Prerequisites: ARH 1101.

ARH 4401 CULTURAL ORIGINS OF ART 1 - 9 cr.
A travel-study seminar abroad visiting various countries around the world. Provides intensive study of the humanities and cultures from which various art styles emerge. Lectures will be conducted throughout the tour by the director. Prerequisite: ARH 1101, 1102.

ARH 4407 EMPIRES OF THE WORLD THROUGH ART 3 cr.
Explores the use of art and architecture of various empires as images of power and political statement. The Roman, Byzantine, Holy Roman, Ottoman, Russian, and British empires will be examined. Prerequisite: ARH 1101, 1102 or permission of instructor. Dual listed with 5507.

ARH 4408 ART AND MYTHOLOGY OF ANCIENT GREECE 3 cr.
Explores the relationship between art and mythology in ancient Greece from the Bronze Age through the Classical and Hellenistic periods. Prerequisite: ARH 1101 or 1102. Dual listed with 5508.

ARH 4409 WOMEN IN ART 3 cr.
A study of the accomplishments and contributions of women in art and architecture from antiquity to the 20th century. Women as subjects in art will also be examined with emphasis on the cultural and artistic milieu in which they are represented. Prerequisite: ARH 1101 or 1102. Dual listed with 5509.

ARH 4410 WOMEN IN ANCIENT GREEK ART 3 cr.
This course explores women as subjects and patrons of ancient Greek art, with emphasis on the cultural and artistic milieu in which they are represented.

ARH 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 – 3 credits at one time.

ART

ART 2218 PHOTOGRAPHY 3 cr.
The study of black and white, and digital photography. Emphasis is on camera skills, darkroom techniques, and the understanding of photographic imagery.

ART 2238 MULTICULTURAL CRAFTS 3 cr.
This is a beginning class in the exploration of a variety of 2-D and 3-D crafts ideas from around the world. Projects will span ancient history through contemporary time. Students will be required to work with a variety of materials and equipment. Students will learn how the applied arts fit within the concept of and relate to "fine" art.

ART 2240 TWO-DIMENSIONAL DESIGN 3 cr.
An introduction to two-dimensional design through the use of various media. This course will explore the creative use of color and elements of design, stressing their function and relationships.

ART 2244 THREE-DIMENSIONAL DESIGN 3 cr.
Three-Dimensional Design is an introduction to the relationship between ideas and the creation of three-dimensional objects. Students will explore the principles and elements of design as they apply to the creation of three-dimensional works of art.

ART 2248 DRAWING 3 cr.
Builds those skill and attitudes necessary for the remainder of the program. Introduces the two- dimensional and three-dimensional aspects of drawing and develops personal power of expression. Designed to stimulate creative thinking, develop sensitivity to the arts element, sharpen impressions and the visual memory. Prerequisites: ART-2240

ART 3261 WATER BASE MEDIA 3 cr.
Explores water base media (transparent, gouache, acrylic polymer) with the intent of establishing a broad base of understanding needed to accomplish personal goals. Dual listed with 5513.

ART 3271 CERAMICS 3 cr.
The study of hand and wheel methods of forming. Introduces the principles of glaze formulation, kiln stacking, and firing. Dual listed with 5515.

ART 3281 SCULPTURE 3 cr.
Exploration of three dimensional design as related to sculpture. Basic techniques of stone and wood carving will be explored in addition to various methods of material build-ups (wood, plaster, Plexiglas, metal, etc.). Dual listed with 5519.

ART 3300 VISUAL STUDIES IN AESTHETIC EXPERIENCES 3 cr.
Studies the philosophic theories of art, aesthetic experience, principles and criticism in the nature and comprehension of the character of arts, the artist, and his/her relationship to life.

ART 3301 OIL PAINTING 3 cr.
Introduction to the methods, techniques, and approaches of the oil painter. Emphasis is placed on composition, application, and involvement in creative self-expression. The understanding and use of the media for solving problems of representation is stressed. Prerequisites: ART-2240.

ART 3311 ADVANCED DRAWING 1 - 12 cr.
The direction of the course of study is determined by the student and instructor. Prerequisite: ART 2248.

ART 3318 ADVANCED PHOTOGRAPHY 1 - 6 cr.
A more in-depth study and understanding of black and white and digital photography. Prerequisite: ART 2218. May be repeated for a maximum of 12 credits.

ART 3330 DIGITAL PHOTOGRAPHY 3 cr.
A course designed for the non-art major using a hands-on approach to learning the digital camera in acquiring images, in preparing them on the computer for print, and in presenting prints in various formats. Prerequisites: 45 earned credits.

ART 3331 PRINTMAKING 3 cr.
Introduction to the printmaking processes of linocut, woodcut, lithography, serigraphy, etching, intaglio, and drypoint with emphasis on their use for creative expression. Dual listed with 5514. Art students only.

ART 3338 MULTICULTURAL CRAFTS 1 – 6
This is an advanced class in the exploration of a variety of 2-D and 3-D craft ideas from around the world. Projects will span ancient history through contemporary time and investigate the importance of crafts in societies. Students will be required to work at an advanced level with a variety of materials and equipment. Prerequisites: ART-2238

ART 3342 ADVERTISING, DESIGN AND LETTERING 3 cr.
Introduction to advertising. A comprehensive survey of basic principles and practices in advertising, their relation to economy, society, and system of mass communication. Psychological and creative factors involved in advertising, design, campaign, media, and research are explored.

ART 3345 FIBERS 3 cr.
A creative application of the principles and elements of design and color theory to fibers and fabrics. Develops skills in textile techniques and an understanding of the functional and aesthetic possibilities of fibers and fabrics. Techniques include: weaving, hooking, rya knotting, crochet, knitting, macrame, stitchery, tie dye, batik, block print, dye painting, spinning, quilting, basketry. Dual listed with 5517.

ART 3362 ADVANCED WATER BASE MEDIA 1 - 12 cr.
The student and instructor determine direction in the course of study. Prerequisite: ART 3261

ART 3365 COMPUTER ART 1 - 6 cr.
Introduction to the methods, techniques, and approaches of the computer for graphic application and provide an effective, workable knowledge of computer graphic design that can be applied to the area of creative expression and teaching.

ART 3372 ADVANCED CERAMICS 1 - 12 cr.
The student and instructor determine direction in the course of study. May be repeated for a maximum of 12 credits. Prerequisite: ART 3271.

ART 3382 ADVANCED SCULPTURE 1 - 12 cr.
The student and instructor determine direction in the course of study. May be repeated for a maximum of 12 credits. Prerequisite: ART 3281.

ART 4362 ADVANCED WATER BASE MEDIA 1 - 12 cr.
The student and instructor determine the direction in the course of study. Prerequisite ART 3261.

ART 4401 ADV OIL PAINTING 1 - 12 cr.
The student and instructor determine direction in the course of study. May be repeated for a maximum of 12 credits. Prerequisites: take ART-3301

ART 4403 SEMINAR 2 cr.
Provides art students with the opportunity to exchange ideas, enhance critical dialectic, and to participate in activities relevant to the professional artist and art educators. In addition, students enrolled in Art Seminar will compile, focus, reflect, and organize their educational experience at Mansfield University into an electronic vita a nd professional portfolio. This course will further prepare art education and art studio majors for either graduate school or professional employment.

ART 4404 SPECIAL PROBLEMS IN ART 1 - 6 cr.
Designed for students interested in extending their scope or gaining depth in specific academic areas related to art and/or education. Since needs and conditions change with each student, the requirements and restrictions are determined by and arranged with the chairperson. May be taken for 1 through 6 credits.

ART 4431 ADV PRINTMAKING 1 - 12 cr.
This course includes advanced problems and proceesses in woodcut, lithography, serigraphy, and drypoint intaglio. May be repeated for a maximum of 12 credits. Prerequisites: ART-3331.

ART 4442 ADVANCED ADVERTISING, DESIGN, AND LETTERING 1 - 3 cr.
An advanced course that explores the principles and practices of advertising and their relation to society and mass communication. Emphasis will be placed on new computer technology in the field of design, research, and media. Prerequisite: ART 3342.

ART 4445 ADVANCED FIBERS 1 - 12 cr.
Direction of the course of study is determined by the student and instructor. May be repeated for a maximum of 12 credits. Prerequisite: ART 3345.

ART 4452 ADV JEWELRY 1 - 12 cr.
The direction of the course of study is determined by the student and the instructor. May be repeated for a maximum of 12 credits. Prerequisite: ART 3351.

ART 4465 ADVANCED COMPUTER ART 1 - 6 cr.
Introduction to the methods, techniques and approaches of the computer for graphic application. To provide an effective, workable knowledge of computer graphic design that can be applied to the area of creative expression and teaching. Prerequisite: ART 3365.

ART 4489 INTERNSHIP 1 - 12 cr.
A practical experience in a selected field of artistic endeavor designed to meet the students needs. May be taken for 3 through 12 credits.

ART 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

ASTRONOMY

Weekly hour information [lecture, recitation, laboratory]

***AST 1105 THE EXPLORATION OF THE SOLAR SYSTEM 3 cr. [3, 0, 0]**
A descriptive astronomy course concerning contemporary astronomical and astrophysical theories about the solar system.

***AST 1106 ONE POSSIBLE UNIVERSE 3 cr. [3, 0, 0]**
A descriptive astronomy course concerning contemporary astronomical and astrophysical theories about the universe.

***AST 1108 OBSERVING THE AUTUMN SKY 1 cr. [1, 0, 0]**
Concentrates on the constellations, stars, and other celestial objects found in the evening sky during autumn. Students also learn pertinent historical, legendary, and astronomical facts about them.

***AST 1109 OBSERVING THE WINTER SKY 1 cr. [1, 0, 0]**
Concentrates on the constellations, stars, and other celestial objects found in the evening sky during winter. Students also learn pertinent historical, legendary, and astronomical facts about them.

***AST 1110 OBSERVING THE SPRING SKY 1 cr. [1, 0, 0]**
Concentrates on the constellations, stars, and other celestial objects found in the evening sky during the spring. Students also learn pertinent historical, legendary, and astronomical facts about them.

***AST 1111 OBSERVING THE SUMMER SKY 1 cr. [1, 0, 0]**
Concentrates on the constellations, stars, and other celestial objects found in the evening sky during the summer. Students also learn pertinent historical, legendary, and astronomical facts about them.

AST 4497 INDEPENDENT STUDY 1 - 3 cr. [0, 0, variable]
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 - 3 credits at one time.

BIOLOGY

BI 1100 ORIENTATION TO BIOLOGY 1 cr.
Orientation to scientific disciplines with particular emphasis on biological sciences. Features guest speakers both from within and outside the university who will address current trends and opportunities in the biological fields. Required of all biology majors. Prerequisite: Biology major.

***BI 1110 ZOOLOGY 4 cr.**
An evolutionary approach to the study of the animal kingdom, with attention given to the development of organ systems throughout the several phyla of invertebrates and vertebrates. Function, correlated with structure and taxonomic features, is emphasized. Additional evidence for evolution is included through an introduction to genetics, embryology, and ecology.

BI 1111 FISH CULTURE I 3 cr.
The technology of controlled husbandry of fish in flowing water. Major emphasis on solving problems relative to the intensive aquaculture. Prerequisite: BI 1100 and 1110 or permission of instructor.

BI 1112 FISH CULTURE II 3 cr.
The technology of controlled husbandry of fish in standing water. Major emphasis on the science of extensive aquaculture. Prerequisite: BI 1110.

***BI 1130 BOTANY 4 cr.**
A study of plant structure, function, development diversity, and evolution. Practical applications in forestry, agronomy, gardening, and horticulture are included. Prerequisite: BI 1100 or permission of instructor.

***BI 2251 TROPICAL MARINE BIOLOGY 1 cr.**
Tropical marine communities are among the richest and biologically most diverse in the oceanic environment. This course provides insight into the biology/ecology of the mangrove, inter-tidal, and coral reef ecosystems. A week-long visit to the tropics which includes snorkeling and diving provides students with firsthand experience.

BI 3310 PHYSIOLOGY 4 cr.
A systematic study of the life processes and functions of the animal body with particular emphasis on the mammalian vertebrate. Prerequisite: BI 1110.

BI 3312 VERTEBRATE ANATOMY 3 cr.
A history of vertebrates and comparative systems through the major vertebrate groups correlating their historical development. Prerequisite: BI 1110.

BI 3313 ENTOMOLOGY 3 cr.
Survey of the classification, structure, physiology, biology and economic importance of insects. An introduction to the study of insects as a major segment of the biological community. Laboratory exercises on anatomy and practice in the techniques of insect identification. Prerequisite: BI 1110.

BI 3314 ICHTHYOLOGY 3 cr.
A laboratory and field study of the fishes inhabiting the lakes and rivers of this area constitute the major portion of this course. Collection, measurement and chemical data as related to fish populations, management, and meristic characters will be collected and analyzed. Prerequisite: BI 1110.

BI 3315 FISH PATHOLOGY 3 cr.
A consideration of the diagnosis and treatment of diseases commonly found in hatchery fish. Diseases of bacterial, viral, parasitic, and environmental origin are studied together with recommended treatment for each. Prerequisite: BI 1110.

BI 3316 INVERTEBRATE ZOOLOGY 3 cr.
An integral evolutionary approach to the anatomy, physiology, and ecology of protozoan Protista and Animalia phyla: Porifera through nonvertebrate Chordata. Prerequisite: BI 1110.

BI 3317 PARASITOLOGY 3 cr.
A systematic study of host-parasite relationships. Emphasis involves life-cycles and comparative characteristics of parasitic protozoans, helminths and arthropods. Prerequisite: BI 1110.

BI 3330 PLANT PHYSIOLOGY 3 cr.
Designed to develop an understanding of the chemical and physical processes occurring in plants including respiration, photosynthesis, hormonal activity, osmosis, transpiration, mineral absorption and translocation. The laboratory work will involve analysis of these functions. Prerequisite: BI 1130.

BI 3331 LOCAL FLORA 3 cr.
Taxonomic and ecological study of local flowering and non-flowering plants. Prerequisite: BI 1130.

BI 3350 ECOLOGY 4 cr.
A study of the fundamental ecological principles of plants and animals in their environment.

BI 3351 LIMNOLOGY 3 cr.
A study of the ecology of inland waters with emphasis on the chemical, physical and biological factors which influence productivity. Coverage also includes water use and pollution control, pollution evaluation techniques and regulatory information. Prerequisite: BI 3350.

BI 3352 MANAGEMENT OF SMALL IMPOUNDMENTS 3 cr.
Theory, practice, and demonstration of managing farm ponds for optimal sport fishing. Prerequisite: BI 3350. Dual listed with 5561.

BI 3353 MANAGEMENT OF STREAMS AND LARGE IMPOUNDMENTS 3 cr.
Theory, practice, and demonstration of managing streams, rivers, natural lakes, and large impoundments for optimal sport fishing. Prerequisite: BI 3350. Dual listed with 5562.

BI 3354 MARINE BIOLOGY 3 cr.
Studies basic to the biology and ecology of marine organisms. Practical applications such as biological/ecological sampling techniques and species identification are covered in the laboratory and on a coastal field trip. Prerequisite: BI 3350.

BI 3355 PALEOBIOLOGY 3 cr.
Examines the origin and subsequent evolution of life over the past four billion years. The paleobiology and geologic history of major animal and plant groups are discussed. The course includes field trips to local and regional fossil sites. Prerequisites: BI 1110, BI 1130 and BI 3350.

BI 3357 EPIDEMIOLOGY 3 cr.
The study of distribution and determinants of disease and injury in populations. Provides an introduction into community health and medical problems and services. Problem solving, case-control studies, and statistical analysis are emphasized. Prerequisite: BI 3350.

BI 3370 CELL BIOLOGY 4 cr.
A study of the cellular level of life with emphasis on cellular structures and their relationship to movement, function, and energy transformation. Cellular genetics and the cellular approach to medicine are also discussed.

BI 3371 MICROBIOLOGY 4 cr.
An introductory course with emphasis on the basic principles and concepts of microbiology concerning anatomy, classification, physiology, medical and practical uses of micro-organisms. The laboratory helps students develop aseptic technique. Prerequisite: BI 3370.

BI 3372 GENETICS 3 cr.
A study of basic principles and concepts of classical and molecular genetics. Emphasis will be on linkage analysis, structural, biochemical and molecular genetics. Prerequisite: BI 3370.

BI 3373 GENETIC RESEARCH 2 cr.
Study and application of cell and molecular genetics techniques to prokaryotes and eukaryotes. Students will become acquainted with the methodologies of modern genetic research and biotechnology. Prerequisite: BI 3370 and 3372

BI 3374 IMMUNOLOGY 3 cr.
The study of antigens and antibodies encompassing the fields of the immune response, autoimmunity, allergic reactions, tumor immunology, tissue graft and transplant biology. Prerequisite: BI 3370.

BI 3375 DEVELOPMENTAL BIOLOGY 3 cr.
A comparative survey of the development of representative animals from several phyla with emphasis on gamete formation, fertilization, embryonic development, organogenesis, growth, and biological aging. The laboratory combines examples of live plant and animal development with prepared slides of frog and chick embryology. Prerequisite: BI 3370.

BI 3376 ANIMAL HISTOLOGY AND BASIC MICRO TECHNIQUES 3 cr.
A systematic study of the microanatomy of the vertebrate body starting with cells and tissues and working through the complete organ systems. Prerequisite: BI 3370.

BI 3378 TISSUE CULTURE 2 cr.
The study of eukaryotic cell culture and molecular techniques. Students will become competent in tissue culture methods used in research laboratories. One hour lecture, three hours lab per week. Prerequisites: BI 3370 and BI 3371

BI 3390 BIOSTATISTICS AND EXPERIMENTAL DESIGN 3 cr.
Presents to science students a description of the processes of experimental design, selection of appropriate statistical tests to analyze experimental data, and performance of these tests using current software.

BI 3391 EVOLUTION 3 cr.
A study of the basic theory, mechanisms, and pathways of natural selection. Also studies the development of evolutionary thought from antiquity to the current gradualist and punctuated equilibrium models. Both genetic and paleontological data are analyzed in examining micro and macroevolutionary scenarios.

BI 3392 HUMAN DIMENSIONS IN FISH MANAGEMENT 3 cr.
Fish Management is the provision for people of a sustained benefit from their use of living aquatic resources and involves the biological, ecological, economic and sociological components of a system that provides aesthetic and other non-tangible benefits to people as well as fish for consumption. The biology of fishes and fisheries in the broad context of its role as a part of a larger society is the subject of BI 3392. The course is designed to fulfill three credits of the human dimensions requirement for certification by The American Fisheries Society.

BI 4450 INTERNSHIP 1 - 12 cr.
The biology internship gives students the opportunity to apply knowledge and skills in the biological sciences while working with a public or private agency involved in aspects of applied biology. The practical experience thus acquired both supplements and reinforces the more academic aspects of biology stressed in the classroom. May be taken for 1 through 12 credits. No more than 10 credits count toward the major.

BI 4470 MOLECULAR BIOLOGY 3 cr.
An examination of the principles and techniques underlying the chemical and physical aspects of living systems. A study of the structure and activities of biological molecules which, properly integrated, constitute all forms of life. The laboratories will demonstrate techniques of the activities, separation and analysis of these molecule forms.
Prerequisite: BI 3370.

BI 4471 CELL PHYSIOLOGY 3 cr.
A study of a specialized field of cell biology which emphasizes phenomena dealing with the nature of the cell membrane and its transport activities, the reaction of cells to changes in environment, the mechanism of cell excitability and contraction, and other manifestations of cellular functioning such as nutrition, growth and secretion.
Prerequisite: BI 3370.

BI 4491 AQUACULTURE RESEARCH 1 - 3 cr.
A special research project is initiated by the student to increase his/her expertise in investigating a scientific problem and reporting the results in the form of a scientific paper. The research is conducted under the guidance of a faculty member who has special expertise in the subject area. May be taken for one through three credits.

BI 4496 SEMINAR 1 cr.
Study and research projects involving investigation of recent literature in the field of biology; preparation of seminar papers on assigned problems.

BI 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

BI 4498 (GEG 465) SEMINAR IN ENVIRONMENTAL SCIENCE 1 cr.
An upper level seminar that integrates and applies concepts and skills taught in the basic courses of the environmental science emphasis.

***BSC 1101 GENERAL BIOLOGY 4 cr.**
An introduction to biological processes; study and discussion of these processes together with ecological aspects of life. The laboratory stresses demonstration and analysis of biological processes.

***BSC 1102 CONTEMPORARY BIOLOGICAL PROBLEMS 3 cr.**
There is no fixed syllabus. Topics are current and usually changed for each semester. Guest lecturers will be given time to present their specialties.

***BSC 1103 ENVIRONMENTAL BIOLOGY 3 cr.**
General education course for non-science majors. It provides students with biological explanations of environmental issues such as pollution, acid rain, global warming, environmental toxicology, forestry, wildlife conservation, etc.

***BSC 1104 HUMAN BIOLOGY 4 cr.**
An overview of the human organism. Emphasis involves organization, maintenance, movement and support, integration, reproduction, genetics, evolution, and ecology of humans.

***BSC 1121 HUMAN ANATOMY AND PHYSIOLOGY I 4 cr.**
This course presents an integrated approach to the study of the anatomy and physiology of the various organ systems of the human body.

***BSC 1122 HUMAN ANATOMY AND PHYSIOLOGY II 4 cr.**
A continuation of BSC 1121. This completes an integrated approach to the study of the anatomy and physiology of the various organ systems of the human body.

BSC 2250 FIELD METHODS IN ENVIRONMENTAL BIOLOGY 3 cr.
A survey of the methods employed in ecological studies of terrestrial and aquatic environments; includes extensive amounts of field work, data analysis and technical report preparation. Prerequisite: BSC 101 or equivalent. BI 350 recommended.

***BSC 3271 MICROBIOLOGY FOR HEALTH SCIENCES 4 cr.**
An introductory course for health science students emphasizing the basic principles and concepts of microbial anatomy, classification, physiology, and their practical applications as well as developing aseptic techniques. Prerequisites: None. Offered every spring.

BUSINESS

BUS 1130 INTRODUCTION TO BUSINESS AND MANAGEMENT 3 cr.
Studies an overview of the broad concept of business functions. Provides a foundation for understanding the relationship between essential activities of business. Helps students to determine and pursue their areas of interest and aptitude.

BUS 1150 WOMEN IN MANAGEMENT 3 cr.
This course examines management structure and practice in relation to women; their goals, expectations, attitudes, and skills. The difficulties women encounter in being successful in management will be analyzed and strategies which both men and women can use in changing the situation will be discussed. The course will emphasize case studies.

BUS 2202 PERSONAL FINANCE 3 cr.
The focus of this course is to provide financial decision making tools and techniques of money management. The course will analyze handling of financial records, financing of home and automobiles, financing of education, estate and retirement planning.

BUS 2230 MANAGEMENT PRINCIPLES 3 cr.
Explains the world of professional management, and has the basic management functions of planning, organizing, leading, and controlling are changing. An emphasis on the contemporary challenges facing management: quality, ethics, global issues and information technology.

BUS 2260 SMALL BUSINESS MANAGEMENT 3 cr.
Introduces students to the REAL (Rural Entrepreneurship Through Action Learning) Program, which aids in the development of a business plan. The course stresses the necessary knowledge unique to running and managing a small firm. It focuses on the business planning process and the characteristics important in running a successful business.

BUS 3301 INTRODUCTION TO FINANCE 3 cr.
Examines basic concepts and techniques for identifying and solving elementary financial management problems. Topics include compound interest and time value of money, financial statement analysis, working capital management, cash flow analysis and capital budgeting, short-term financing, and stockholder equity valuation. Prerequisite: ECO 1101 and MA 1125.

BUS 3302 MANAGERIAL DECISION MAKING 3 cr.
Examines decision making as a multi-dimensional process. A variety of models and frameworks, quantitative and qualitative, are offered as a rational approach to managerial decisions. Prerequisite: BUS 2230.

BUS 3310 MANAGING DIVERSITY 3 cr.
Presents in-depth information of changes in demographic composition, cultural profiles, values, and lifestyles. Provides students with necessary skills to effectively function in the global marketplace, manage employee differences, and improve productivity.

BUS 3321 ENVIRONMENT AND MANAGEMENT OF INTERNATIONAL BUSINESS 3 cr.
Provides a managerial view point of the dynamics of international business. Topics covered include history and scope of international business, international trade theory, foreign direct investment, governmental influences on trade and regional economic integration, and sociocultural and legal factors on MNC's. Prerequisite: BUS 2230, ECO 1101 and 1102.

BUS 3330 MARKETING 3 cr.
Introduces the nature of marketing activities, consumer behavior and motivation. Focuses on an individual firm managing its marketing efforts in relation to market forces and marketing opportunities. Emphasis on development of product, price, promotion, and distribution policies in order to achieve planned marketing programs. Prerequisite: ECO 1101 or 1102.

BUS 3332 PROMOTION IN MARKETING 3 cr.
Examines the promotion functions of the marketing program. It also helps students to analyze marketing communication opportunities, planning, and execution of the marketing program. Prerequisite: BUS 3330.

BUS 3333 (ECO) INTERNATIONAL FINANCIAL MANAGEMENT 3 cr.
Designed to study the mechanism of international business finance. Topics covered include the study of foreign exchange market, Eurodollar market, inflow and outflow of capital to and from the U.S., the effect of U.S. interest rate on imports and exports, and foreign exchange risk. Prerequisite: ECO 1102 and MA 1125.

BUS 3334 MARKETING RESEARCH 3 cr.
Provides an in-depth examination of market research tools and techniques. Emphasis is on effectiveness of the total efforts in an atmosphere of tight budgetary and fiscal control. Also reviews successful efforts and stresses on practical application of theory. Prerequisite: BUS 3330 and MA 1125.

BUS 3349 QUANTITATIVE BUSINESS ANALYSIS 3 cr.
Provides a systematic application of modern quantitative tools and techniques in practical situations. Topics include hypothesis testing, probability distribution, simple and multiple regression, and time series analysis. Prerequisite: MA 1125.

BUS 3350 OPERATIONS MANAGEMENT 3 cr.
A study and use of analytical tools for demand forecasting, use of system design and measurement, inventory control and resource allocation. Specialized and analytical techniques are used to deal with practical situations. Prerequisite: MA 1125 and 1170 or MA 2231.

BUS 3360 INTERNATIONAL MANAGEMENT 3 cr.
Presents in-depth description of the emerging field of international management. Comprehensive coverage of both the strategic and behavioral dimensions of international management. Exploring key cultural issues and problems in management across frontiers related to leadership, decision making, motivation and control. It deals with the unique managerial risks and challenges resulting from complicated economic, legal-political and sociocultural forces. Prerequisites: BUS 2230.

BUS 3370 SALESMANSHIP 3 cr.
Provides students with entry level skills for a position in sales. Recognizes the necessary skills and characteristics that contribute toward greater sales effectiveness. Stresses the importance of establishing realistic goals and objectives; to manage your time and selling activities more effectively. The primary objective, however, is to gain an understanding of personal selling as a major function within the marketing and promotional mix of a firm. Prerequisite: BUS 3330

BUS 3380 MANAGERIAL FINANCE 3 cr.
This course focuses on functions and responsibilities of financial managers in various organizations. Emphasis will be placed on financing, investment, and dividend policy decision of an organization. Topics include opportunity cost of capital, risk and rate of return, capital investment analysis, and theorems of capital structure. Prerequisites: ECO 1101 and MA 1125.

BUS 4402 CORPORATE FINANCE 3 cr.
Focus on how individuals, financial institutions, and corporations make investment and financing decisions over multiple time period in an uncertain environment. Topics include theory of choice, efficient capital markets, CAPM and APT, capital budgeting under uncertainty, capital structure theories and policies, dividend policy, mergers and restructuring, and elements of international financial management. Prerequisits: MA 1125, MA 1170, ECO 1101.

BUS 4403 BUSINESS AND AMERICAN FOREIGN POLICY 3 cr.
Provides a systematic look at the U. S. Foreign policy on international business. Topics covered include economic, social and political objectives of foreign policy, the impact of foreign policy on East-West trade relations, emerging market economies in eastern Europe and U.S. foreign policy, NAFTA, GATT, GSP and U.S. multinational corporations. Prerequisite: ECO 1101 or 1102 and BUS 2230.

BUS 4410 BUSINESS LAW I 3 cr.
Introduces the legal environment of business and its role in modern society. Topics include the formation of contracts, sales, negotiable instruments, bank deposits and collections, secured transactions, and business organization. Emphasizes social and ethical considerations, terminology, fundamental legal principles, and analysis.

BUS 4411 BUSINESS LAW II 3 cr.
Continued study of legal principles including agency, property, Federal Securities law, and bankruptcy. Emphasis is placed on the case law approach and problem solving. Prerequisite: BUS 4410.

BUS 4415 MARKETING MANAGEMENT 3 cr.
An in-depth examination of contemporary micro and macro marketing systems. Examines functional marketing decisions through the application of behavioral concepts, quantitative tools, and systems theory. Also presents advanced marketing techniques used by marketing organizations. Looks at individual behavior in order to evaluate the buying behavior of consumers with the objective of tailoring marketing strategies to meet consumers' needs and wants. Prerequisite: BUS 3330 and junior standing, or permission of instructor.

BUS 4420 TOPICAL SEMINAR/MARKETING FOR NON-PROFIT ORGANIZATIONS 3 cr.
Marketing for Non-Profit Organizations.

BUS 4421 TOPICAL SEMINAR/MARKETING CHANNELS OF DISTRIBUTION 3 cr.
Marketing Channels.

BUS 4422 TOPICAL SEMINAR/INTERNATIONAL MARKETING 3 cr.
Examines the application of marketing concepts and strategies in the global markets. Emphasis is on adjusting and adapting a marketing program to foreign markets. Provides an understanding of differences between markets in different countries, its politics, legal, culture, trade practices, geography, and commercial policies. Studies export and import procedures and practices. Prerequisite: BUS 3330 or permission of instructor.

BUS 4423 TOPICAL SEMINAR/INDUSTRIAL MARKETING 3 cr.
Industrial Marketing.

BUS 4424 TOPICAL SEMINAR/SALES FORCE MANAGEMENT 3 cr.
Sales Force Management.

BUS 4425 TOPICAL SEMINAR/CURRENT MARKETING PROBLEMS 3 cr.
Current Marketing Problems.

BUS 4435 INVESTMENT THEORY 3 cr.
Introduction to financial policy with special emphasis on the practical application of risk-return theory. Investment decisions by individuals and firms, in stocks and bonds and other securities, made on the basis of incomplete information in an uncertain environment is covered. Prerequisite: ECO 1102 and MA 1125.

BUS 4441 FINANCIAL STATEMENT ANALYSIS 3 cr.
Analyzes financial statements issued by public held organizations. Emphasis is on the use of financial statements by creditors, investors, and those who are external to the enterprises. Topics include cash flow analysis, standards of financial analysis, and off-balance sheet financing. Prerequisite: ACC 1111, MA 1125.

BUS 4450 ORGANIZATIONAL INTERNSHIP 1 - 15 cr.
Supervised and evaluated participation in the regular activities of a business, government, agency, or appropriate organization. In consultation with the supervising faculty member, the student is expected to prepare a comprehensive final report relating to the work accomplished during the field experience. May be taken for 1 through 15 credits. No more than 6 credits count toward the major.

BUS 4451 MANAGING THE ORGANIZATIONAL BEHAVIOR 3 cr.
An examination of theories, concepts, and research findings emerging from the various disciplines which study individual and group behavior within organizational systems. Prerequisite: Bus 2230.

BUS 4490 BUSINESS POLICY 3 cr.
This capstone course addresses general management skills that integrate the various functions of the organization. An analysis of the problems and complexities of strategic decision making. Develop skills in formulating strategic considerations using environmental analysis, resource assessment, assumption development, goal determination, strategy formulation, implementation, and performance evaluation. Prerequisite: 75 earned credits; ECO 1101, MA 1125, and MA 1170.

BUS 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

CANADIAN STUDIES

***CDN 1101 INTRODUCTION TO CANADA 3 cr.**
An interdisciplinary course. Provides a comprehensive introduction to Canada stressing the basics of geography, history, economics, politics, and culture before taking up various contemporary issues, among them: constitutional reform, environmental issues, and the sovereignty of Canada's Native People.

CDN 3370 FOREIGN STUDY – CANADA 1-3 cr.
Open to students who wish to study in Canada. Plans for study at a Canadian university should be presented at least one semester prior to departure. Number of credits granted will be based on validated credentials presented to the Canadian Studies program. The student should register for CDN 3370-3380 prior to departure. Students should consult the regulations for study-abroad available in the Office of the Provost/Vice President for Academic Affairs.

CDN 3371 – 3380 FOREIGN STUDY – CANADA 1-3 cr.
See CDN 3370 for course description.

CDN 4450 INTERNSHIP 1 - 6 cr.
Supervised participation in a business or government agency in Ontario or Quebec, or in a U.S. business or government agency with Canadian interests. Prerequisite: CDN 1101 and 6 credits in Canadian Studies. May be taken for 1 through 6 credits.

CDN 4490 SELECTED TOPICS IN CANADIAN STUDIES 3 cr.
An in-depth study of an issue or problem in Canadian culture, politics or business. Prerequisite: CDN 1101 or permission of instructor.

CHEMISTRY

Weekly hour information [lecture, recitation, laboratory]

***CHM 1101 INTRODUCTORY CHEMISTRY 4 cr. [3, 1, 2]**
A treatment of fundamental principles for non-science majors. Does not meet degree requirements for chemistry or biology majors.

***CHM 1102 ORGANIC AND BIOCHEMISTRY 4 cr. [3, 1, 2]**
Deals with the principles of organic and biochemistry and their application to topics such as nutrition, consumer products, and the environment. In the laboratory students carry out various reactions, syntheses, analyses, and separations that exemplify the practice of organic and biochemistry. This course does not meet degree requirements for chemistry or biology majors. Prerequisite: CHM 1101.

***CHM 1103 CHEMISTRY AND THE ENVIRONMENT 4 cr. [3, 0, 3]**
Examines the theory and practice of chemistry and related topics. Topics treated will be integrated and historically developed.

***CHM 1105 HOW DRUGS WORK 3 cr. [3, 0, 0]**
This lecture course outlines the mechanisms by which drugs exert their effects on the body. It begins with a discussion of molecular structures of drugs and their targets in the body, and then reviews physiological aspects of various disease states and the ways different drug classes modify the relevant physiology. This course is intended for General Education science credit and does not meet degree requirements for the chemistry major.

CHM 1106 CHEMISTRY FOR THE ALLIED HEALTH SCIENCES 4 cr. [4, 0, 0]
A one-semester survey course for non-science majors. General organic, biochemistry, and clinical chemistry are emphasized for students in health support programs.

***CHM 1110 SURVEY OF CHEMISTRY, INTRODUCTORY, ORGANIC, AND BIOLOGICAL 4 cr. [3, 1, 2]**
A survey course for non-science majors. General, Organic, and Biological Chemistry are emphasized. DOES NOT meet degree requirements for chemistry and biology majors.

***CHM 1111 GENERAL CHEMISTRY I 4 cr. [3, 0, 3]**
For science majors. A study of the fundamental principles of chemistry from the standpoint of stoichiometry, gases, states of matter, solutions and equilibrium theory. Laboratory sessions stress the chemical principles discussed in the lecture.

***CHM 1112 GENERAL CHEMISTRY II 4 cr. [3, 0, 3]**
A continuation of 1111: kinetics, thermodynamics, oxidation-reduction, atomic and molecular structure, bonding, and periodic relationships are studied. The laboratory work is an introduction to qualitative analysis and includes experiments designed to exemplify chemical principles. Prerequisite: CHM 1111.

CHM 2201 INTRODUCTION TO BIOCHEMISTRY 4 cr. [3, 0, 2]
An introductory course in biochemistry with particular emphasis on human nutrition. Major topics are fuel management and the organization and control of metabolic pathways. The laboratory component includes separation, analysis, and properties of carbohydrates, lipids, amino acids, and enzymes. This course does not meet degree requirements for chemisty and biology majors. Prerequisite: CHM 1102.

CHM 3264 CHEM MTDS FOREN SCI 3 cr. [2, 0, 2]
An advanced treatment of the chemical methods used in the investigation of criminal activities. The use and reliability of chemical tests, solubilities, and reactions as well as the chemistry of chromatographic, spectroscopic and instrumental analysis will be included. Prerequisites: CHM-1110 SCI-1104 SCI-1107. Corequisite course: CHM-3264L

CHM 3301 ORGANIC CHEMISTRY I 4 cr. [3, 0, 4]
Fundamentals of organic chemistry are presented. Modern theory, reaction mechanisms and stereochemistry are included along with nomenclature, preparation, reactions and properties of organic compounds. The laboratory stresses syntheses, chemical and physical properties and an introduction to instrumental techniques. The laboratory period includes one hour of lecture on theory and techniques of laboratory operations. Prerequisite: CHM 1112.

CHM 3302 ORGANIC CHEMISTRY II 4 cr. [3, 0, 4]
A continuation of 3301. The laboratory period includes one hour of lecture on theory and techniques of laboratory operations. Prerequisite: CHM 3301.

CHM 3311 QUANTITATIVE ANALYSIS 4 cr. [3, 0, 4]
An introductory course in analytical chemistry emphasizing classical titrimetric and gravimetric methods and related theories. Prerequisite: CHM 1112.

CHM 3321 PHYSICAL CHEMISTRY I 4 cr. [3, 0, 4]
An introduction to the methods and topics of physical chemistry. Topics include introduction to thermodynamics, equilibria, kinetics, atomic structure, and molecular spectroscopy. Prerequisite: CHM 1112, 3302, MA2231, PHY 1188 and 2211.

CHM 3322 PHYSICAL CHEMISTRY II 4 cr. [3, 0, 4]
A continuation of 3321. Advanced study of the methods and topics covered in physical chemistry I. MA 2233 is required. Prerequisite: CHM 3321 and MA 2232.

CHM 3332 INSTRUMENTAL ANALYSIS 4 cr. [3, 0, 4]
Deals with the principles and applications of instrumental methods in chemical analysis. Studies include electroanalytical, spectrophotometric, and chromatographic techniques. Prerequisite: CHM 3311.

CHM 3341 BIOCHEMISTRY 4 cr. [3, 0, 3]
A study of carbohydrates, lipids, proteins, enzymes, nucleic acids, vitamins, and hormones in terms of structure, function, and synthesis in living systems. The laboratory includes the isolation, identification, and chemical behavior of biochemically important molecules. Prerequisite: CHM 3302 or permission of instructor.

CHM 3352 RADIOCHEMISTRY 3 cr. [2, 0, 3]
The study of radioisotope methodology. A laboratory oriented course familiarizing the student with radiation detection and applications in natural science problems. Prerequisite: junior or senior standing or permission of instructor.

CHM 4410 SEMINAR 1 cr. [1, 0, 0]
Deals with reports emphasizing chemical literature searches and/or current research. Prerequisite: upper division chemistry major.

CHM 4420 QUALITATIVE ORGANIC CHEMISTRY 3 cr. [2, 0, 4]
The identification of organic compounds by various classical and instrumental techniques. Prerequisite: CHM 3302.

CHM 4421 ADVANCED ORGANIC CHEMISTRY 3 cr. [3, 0, 0]
An advanced lecture course designed to deepen and expand knowledge in the field. Topics such as reactions, mechanisms, reactive intermediates, photochemistry, kinetics, stereochemistry, natural products, and spectroscopy may be stressed. Prerequisite: CHM 3302 and 3321.

CHM 4431 ADVANCED INORGANIC CHEMISTRY 4 cr. [3, 0, 4]
A presentation of atomic structure and periodic properties. In addition to other topics; valence bond, molecular orbital, crystal field and ligand field theories are treated. Laboratory sessions include one hour of lecture on theory and techniques in the preparation of representative compounds. Prerequisite: CHM 1112 and 3321.

CHM 4432 STRUCTURAL CHEMISTRY 3 cr. [3, 0, 0]
The symmetry and structural properties of molecular systems are utilized to determine their energy levels. The electronic and vibrational spectroscopic properties of these systems will be predicted also utilizing symmetry properties. These spectra-structure correlations will be made on organic and inorganic systems. Prerequisite: CHM 3302 and 3321.

CHM 4490 PROBLEMS IN CHEMISTRY 1 - 3 cr. [0, 0, variable]
Involves the student in study projects under the direct supervision of an instructor. Library and laboratory research in selected problems. Prerequisite: Permission of instructor. May be taken for one through three credits.

CHM 4497 INDEPENDENT STUDY 1 - 3 cr. [0, 0, variable]
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 - 3 credits at one time.

COMPUTER INFORMATION SCIENCE

CIS 1101 COMPUTERS IN SOCIETY 3 cr.
Examines the impact of computers on modern society and how they are programmed and used. A variety of computer applications from the social sciences, humanities, natural sciences, and professions will be studied.

CIS 1102 VISUAL BASIC PROGRAMMING 3 cr.
Introduces problem solving through the use of the programming language, Visual Basic. Enables students to write programs, which they can use for Windows development, scientific computing, spreadsheet design, and database work.

CIS 1103 INTRODUCTION TO MICROCOMPUTERS 3 cr.
Introduces an operating System for microcomputers and the use of word processing, spreadsheet, and presentation software.

CIS 1104 COMPUTER SCIENCE I 3 cr.
Introduces a high-level programming language as a means of studying problem solving, algorithms, and program structure. Includes data representation, repetition, selection, modular programming, debugging, and verification of programs.

CIS 2203 SOFTWARE FOR BUSINESS APPLICATIONS 3 cr.
Advanced applications of spreadsheets, data base management systems, and graphics.

CIS 2204 COMPUTER SCIENCE II 3 cr.
Emphasizes algorithms, structured programming and program analysis and design. Topics include files, records, recursion, string manipulation, graphics, and dynamic data structures. Prerequisite: CIS 1104

CIS 2206 BUSINESS PROGRAMMING CONCEPTS I 3 cr.
An introduction to analyzing and designing solutions to business-related problems using a business programming language. Prerequisite: CIS 1104.

CIS 3300 PROGRAMMING LANGUAGES 3 cr.
Comparative study of current programming languages. Examines the structure of languages and their use in problem solving. Prerequisites: CIS 2204 and 3330.

CIS 3301 DATA STRUCTURES 3 cr.
Topics covered are data types, arrays, records, stacks, queues, linked lists, and trees. Other more advanced topics may include: file structures, recursion, heuristics, and hashing. Prerequisite: CIS 2204.

CIS 3303 WEB SITE DESIGN 3 cr.
An introduction to the principles of Web Site Design. The syntax and semantics of HTML is covered. Multimedia elements will also be introduced.

CIS 3306 BUSINESS PROGRAMMING CONCEPTS II 3 cr.
A second course in business programming stressing data processing and advanced programming techniques. Prerequisite: CIS 2206

CIS 3308 OPERATIONS RESEARCH 3 cr.
The development and use of the techniques of operations research. Topics include linear programming, queuing theory, probabilistic inventory models and simulation. Prerequisites: CIS 2203 or 2204; MA 1125 or 3314; MA 1129, 3260 or 3280; MA 1170 or 2231.

CIS 3310 SYSTEMS ANALYSIS 3 cr.
An introduction to the concepts of systems analysis and design. Problem definition; data gathering, information analysis, presentation techniques, implementation planning, system controls, documentation. Prerequisites: BUS 1130 or 2230, and CIS 2203 or 2206.

CIS 3314 (ACC) AUTOMATED ACCOUNTING SYSTEMS 3 cr.
Introduction to the development and implementation of an accounting information system. Prerequisites: ACC 3315 and CIS 2203 or permission of instructor.

CIS 3320 COMPUTER ARCHITECTURE 3 cr.
Classification of computers. Defining hardware and software interfaces within a computer system. Special purpose architectures. Prerequisite: CIS 3330

CIS 3325 OPERATING SYSTEMS 3 cr.
Functions and characteristics of an operating system: concurrent processes, system nucleus, memory management, input and output, filing system, resource allocation and scheduling, system protection and reliability, and job control. Prerequisites: CIS 3301 and 3330.

CIS 3330 COMPUTER ORGANIZATION 3 cr.
Overview of computer hardware, computer structure, machine representation of information, instruction codes, addressing, concepts of digital logic, microprogramming and assembly language programming. Prerequisite: CIS 1104.

CIS 3335 ASSEMBLY LANGUAGE PROGRAMMING 3 cr.
Explores assembly language programming including macro and subroutines. Emphasis will be on application and systems programming including machine organization for a general purpose computer. Prerequisites: CIS 2204 and 3330.

CIS 3340 DATABASE SYSTEMS 3 cr.
First course in the theory and use of database management systems. Provides experience in the creation of an actual database system and the manipulation of the data in it. Prerequisites: CIS 3301 and CIS 3306.

CIS 3361 ANALYTICAL METHODS OF INFORMATION SCIENCE 3 cr.
The study of key mathematical developments in computer science. Topics will include: sets, functions, relations, graphs, and digraphs. Other computer-specific topics may include: recursion, finite state machines, formal language theory, list processing support for management and decision functions. Prerequisites: CIS 2204 and 3330.

CIS 3390 NETWORKING 1 3 cr.
Introduction to the underlying principles of networking. Concepts of network protocols and network applications are covered. TCP/IP principles will be taught. Prerequisites: CIS 2204.

CIS 4401 MANAGEMENT INFORMATION SYSTEMS 3 cr.
Advanced study of information processing systems which provide transactional processing for an organization and information and processing support for management and decision functions. Prerequisite: CIS 3310.

CIS 4420 SPECIAL PROBLEMS IN COMPUTER APPLICATIONS 1 - 3 cr.
Study of a specialized topic. Possible topics include Computer Aided Design, Data Base Systems, Telecommunications, Advanced Business Programming.

CIS 4430 PROGRAM TRANSLATION 3 cr.
The theoretical aspects of program translation: Compilers, assemblers, and interpreters: Prerequisites: CIS 3301 and 3330.

CIS 4440 ARTIFICIAL INTELLIGENCE 3 cr.
The application of computers to solve problems and to understand the principles of human intelligence including search, reasoning, and problem reduction. Applications to games, expert systems, natural language, learning, robotics, and computer vision. Prerequisite: CIS 2204.

CIS 4441 SWITCHING THEORY AND LOGIC DESIGN 3 cr.
An introduction to electronic circuits used in digital systems including computers, instruments, communications systems, and control systems. Topics include Boolean algebra, switching theory, logic design, and major digital circuit lines. Prerequisites: CIS 2204 and 3330.

CIS 4450 ORGANIZATIONAL INTERNSHIP 1 - 12 cr.
Supervised and evaluated participation in the regular activities of a business, government, agency, or appropriate organization. In consultation with the supervising faculty member, the student is expected to prepare a comprehensive final report relating to the work accomplished during the field experience. May be taken for 1 through 12 credits. No more than 6 credits count toward the major.

CIS 4490 NETWORKING II 3 cr.
Second course in data and computer communications. Communication principles, computer requirements, networking, standards, and future trends and issues will be examined. Prerequisites: CIS 3303 and CIS 3330.

CIS 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 - 3 credits at one time.

CRIMINAL JUSTICE

CJA 1100 INTRODUCTION TO CRIMINAL JUSTICE 3 cr.
An introduction to the field of criminal justice, its major components, roles and functions. Emphasis is placed upon concepts of law and the historical descriptive analysis of the police, courts, and corrections.

CJA 2200 SURVEY OF POLICING
Introduction to law enforcement problems and practices; it's legal, political, and historical framework. An analysis of police organizations and their relationship with other criminal justice and social agencies.

CJA 2201 SURVEY OF CORRECTIONS 3 cr.
Origin and history of incarceration practices and procedures; associated organizational, criminological and phenological concepts; categories of inmates and laws affecting classification; special custody problems and treatment programs, staff organization; professional, administrative and custodial personnel training, recruitment and promotions; interagency relationships and cooperation; release programs, furloughs, work-release, and final discharge.

CJA 3261 COMMUNITY POLICING 3 cr.
Basic definitions; rule of law; individual and societal aspects of police-community relations; police and minority groups; social change and law enforcement; principles of programming in police-community relations; police discretion; police role, police problems. Prerequisites: CJA 1100 and CJA 2200.

CJA 3262 INVESTIGATION AND INTERROGATION 3 cr.
An introduction to the fundamentals of criminal investigation, rules of evidence, sources of information, observations, descriptions, and identification, including collection, preservation, and processing of physical evidence, records, reports, statements, case preparation, surveillance and undercover techniques, modus operandi information.

CJA 3267 COMMUNITY AND INSTITUTIONAL CORRECTIONS 3 cr.
An in-depth examination of the American correctional system, covering probation, intermediate punishments, corrections, parole, community correction, as well as related issues such as clemency, boot camps, sentencing, the death penalty and challenges facing corrections. Attention will be paid to the Pennsylvania correctional system, its agencies and national and state current events which dictate how public policy decision-making affects the American correctional process.

CJA 3276 CRIMINOLOGY: A MULTI DISCIPLINARY APPROACH 3 cr.
Acquaint students with the nature and forms of crime. Major areas of concern are the functions of law, the scientific study of crime, criminological topologies, classical and positive definitions of crime, comparative criminology, and the problem of punishment.

CJA 3301 INDUSTRIAL SECURITY 3 cr.
Examines basic industrial security concepts, principles, and methodologies. Provides knowledge of procedures and programs currently applied in industrial security management.

CJA 3324 JUDICIAL CRIMINAL PROCESS 3 cr.
An examination of the role and function of the judiciary in the criminal justice decision-making process. It includes a survey of America's court system and an in-depth analysis of its major components. Emphasis will also be placed on important interactions within the judicial system and its major interrelationships with other criminal justice agencies.

CJA 3336 CRIMINALISTICS 3 cr.
Examines the phase of the criminal investigation process concerned with physical evidence. Major emphasis will be placed upon legal and technical consideration in the recognition, collection, and preservation of various categories of physical evidence and the process through which it is transmitted to the crime laboratory. Attention will also be given to knowledge requirements of the evidence technician in terms of the capabilities and techniques of the crime laboratory. Prerequisite: CJA 1100 AND CJA 2200.

CJA 3354 CRIMINAL LAW 3 cr.
Principles, theories and doctrines of the law of crimes with a unified study of legal defenses; elements and proof in crimes of frequent concern; importance of criminal law at the enforcement level is considered from crime prevention to the courtroom; case analysis.

CJA 3355 EVIDENCE and CRIMINAL PROCEDURE 3 cr.
Rules of evidence of particular import at the operational level of law enforcement; types of evidence, principles of admissibility; the attendance and production of witnesses, their competency and impeachment; arrest, search and seizure; use of force and Supreme Court decisions affecting this area of criminal justice administration.

CJA 3357 CORRECTIONAL STRATEGIES 3 cr.
Offender classification; special offender groups, treatment, custody, recidivism, and strategies designed to change offender conduct.

CJA 3359 JUVENILE JUSTICE 3 cr.
Structure and format of the juvenile justice system-police, courts and corrections; analysis and description of the organizational structure of each of the subsystems of the juvenile justice process; introduction to juvenile justice literature and research findings.

CJA 3395 DELINQUENCY AND THE CRIMINAL JUSTICE SYSTEM 3 cr.
Exposes students to the full impact of the delinquency problem. Theories of delinquency causation, prevention, and rehabilitation will be critically examined.

CJA 4401 ADVANCED INDUSTRIAL SECURITY 3 cr.
Advanced course of industrial and government security concepts, principles, and methodologies; knowledge of relationships of industrial security procedures in business organizations to the Department of Defense National Security Program. Prerequisite: CJA 301.

CJA 4405 RESEARCH METHODS IN CRIMINAL JUSTICE 3 cr.
An introduction to research methodology with particular emphasis placed on criminal justice issues. Examines research theory, its major components, and its application to various criminal justice agencies including the police, courts, correctional institutions, etc.

CJA 4450 INTERNSHIP IN CRIMINAL JUSTICE ADMINISTRATION 1 - 12 cr.
Educational and work experience in an actual criminal agency-law enforcement, courts, corrections or industrial security; applicable agency research project; periodic conference with criminal justice agency personnel and faculty advisor. May be taken for one through twelve credits.

CJA 4453 POLICE ORGANIZATION AND ADMINISTRATION 3 cr.
Organizational theory, budgeting, personnel management planning, information management theory, civil service, unions, management prerogatives, supervision, executive development, manpower distribution schemes, and policy development and execution as applied in both small and large law enforcement agencies. Prerequisites: CJA 100 and CJA 2200.

CJA 4490 SENIOR SEMINAR
This is a capstone course designed to: 1) help seniors integrate the knowledge gained from their other criminal justice courses; 2) assist them in developing analytical thinking skills through focusing on several selected topics; and 3) to instill in them the confidence that they have acquired a core body of knowledge that will assist them when they enter a criminal justice agency or graduate school.

CJA 4496 SELECTED TOPICS 3 cr.
An intense analysis of a selected topic in law enforcement, adjudication, and correctional fields. Intended for advanced undergraduates, graduates, and in service pro- fessionals.

CJA 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

COMMUNICATION

COM 1101 ORAL COMMUNICATION 3 cr.
Objectives are to help the student to formulate his/her own ideas coherently, evaluate factual material, and use sound reasoning patterns in his/her preparation and attempts to communicate concepts orally; to determine and select the most effective means of expression in formal and informal speaking situations. Required of all Mansfield students.

COM 2200 ORAL INTERPRETATION 3 cr.
An introductory course in presenting oral readings of various literary genres. It involves written analysis and practical experience in presenting selections, and the understanding and appreciation of oral interpretation as the communication of the readers impression of the authors intent as an artistic representation of his/her world in a piece of literature. Prerequisite: COM 1101 or permission of instructor.

COM 2201 INTRODUCTION TO MASS MEDIA 3 cr.
Studies the application of modern mass media, its origin, history, theory, principles, and philosophy to the areas of entertainment, instruction, and audience persuasion. Practical experience in the basic media is provided.

COM 2203 VOICE AND ARTICULATION 3 cr.
A study of basic physiology and phonetic analysis. It begins with transcription and evaluation of the student's speech. Subsequent attention is given to the correction of individual faults in voice and articulation habits in order to achieve clear and effective communication. Prerequisite: COM 1101 or permission of instructor.

COM 2206 FORENSICS 1 cr.
Designed for the student interested in intercollegiate forensics. Students are involved in the theory and practice of competitive speaking in debating, extemporaneous speaking, original oratory, oral interpretation, and other forensic events. Prerequisite: permission of instructor. May be taken for a total of eight credits.

COM 2210 INTRODUCTION TO PUBLIC RELATIONS 3 cr.
Study of the history, principles, and practice of public relations in business, education, government, and other organizations.

COM 2220 AMERICAN BROADCASTING HISTORY 3 cr.
An introduction to the American broadcasting system which examines the history of the medium and relates it to current issues in electronic media. The course utilizes historical programming examples, examines broadcast and cable technology, and develops student awareness of the importance of electronic media in our society. Prerequisite: COM 2201.

COM 2230 WRITING FOR BROADCASTING MEDIA 3 cr.
A basic course in the writing techniques used in American radio and television. The course focuses on the development of original ideas for a range of commercial and promotional needs, including an original television series. Prerequisite: JN 1100

COM 2270 AUDIO PRODUCTION 3 cr.
An introductory course in the theory and operation of audio equipment and the creation of various audio presentations. Students write, produce, and perform in a series of individual and group projects.

COM 3301 TELEVISION PROGRAM DESIGN I 3 cr.
Study of the theoretical and practical aspects of television program conceptualization, scripting, production, presentation, and evaluation. Prerequisite: COM 2201.

COM 3303 TELEVISION AND RADIO ANNOUNCING 3 cr.
In-depth training in effective communication skills employed by broadcasters. Prérequisite: COM 2201, 2203, 2215 3301.

COM 3304 TELEVISION PROGRAM DESIGN II 3 cr.
Study of the theoretical and practical aspects of television program conceptualization, scripting, production, editing, presentation, and evaluation. Emphasis is on the application of these elements in a variety of program situations. Prerequisite: COM 2201 and 3301.

COM 3310 ELECTRONIC MEDIA MANAGEMENT 3 cr.
Presents current practices, problems, and issues of electronic media management. Lectures, readings, and class presentations by industry representatives provides an introduction to the business aspects of electronic media. Prerequisite: COM 2201 and 2220.

COM 3320 PUBLIC RELATIONS WRITING TECHNIQUES 3 cr.
An advanced level investigation of the theory and practice of public relations. Special emphasis is placed on public relations writing for clients, media, and other audiences. Prerequisites: COM 2210, JN 1100.

COM 3321 VISUAL PRESENTATIONS 3 cr.
This hand-on workshop leads students through a series of step-by-step demonstrations and practice sessions while at a computer keyboard so they can design flyers, brochures, and presentation materials. Prerequisites: COM 210 and COM 3320.

COM 3325 INTERPERSONAL COMMUNICATION 3 cr.
Interpersonal Communication explores the dynamics of communication transactions between individuals who share some type of relationship. This course examines both global and cultural issues. Specifics topics include but are not limited to the following: fundamentals, perception, the self concept, language, attitudes, belief systems, power, ethics, conflict, culture and relationships. This course focuses on both a conceptual comprehension and a practical application in understanding one's communication experience.

COM 3330 PARLIAMENTARY PROCEDURE 3 cr.
Examines history, philosophy, and practice of parliamentary procedure as it applies to our democratic society. Emphasis is on the development of procedures and includes practice in the use of the theories.

COM 3334 GENDER AND COMMUNICATION 3 cr.
This course is designed to introduce students to the concepts of gender and how those concepts relate to communication. The course introduces students to important gender communication concepts such as gendered verbal and non-verbal communications, the social shaping of gender, gendered power and violence, sexual harassment, and gendered communication in educational, organizational, media, and relationship settings.

COM 3336 BUSINESS AND PROFESSIONAL COMMUNICATION 3 cr.
Focuses on a step-by-step approach to professional communication in the business environment highlighting the employment interview. Topics included an introduction to interviewing, researching an organization, adapting to organizational change, constructing resumes and writing business correspondence, examining the roles of interviewee and interviewer, business etiquette, performance appraisals and company reprimands as well as exploring career planning. Serves as a "bridge" between the student's conceptual comprehension and application in course work to the environment of the professional working world the students are about to enter. Prerequisites: COM 1101, ENG 1112WW, or BUS 1130. A minimum of 60 credits is required to enroll. Prerequisites: COM-1101, 60 credits, ENG 1112WW or BUS-1130.

COM 3340 PROFESSIONAL ISSUES IN COMMUNICATION 3 cr.
Research, prepare, present, and evaluate contemporary issues in the communication field. Investigate professional communication associations and career paths in respective emphases. Prerequisite: COM 1101, 2201, and JN 1100.

COM 3350 BROADCAST WORKSHOP 3 cr.
Emphasizes the production of programs designed for public reception. Students will work under professional production team discipline in the areas of format development, advanced writing production, and post production. May be repeated for 6 credits. Prerequisites: COM 2201, 3301, and 3304.

COM 3360 ORGANIZATIONAL COMMUNICATION 3 cr.
Examines the process of communication within organizations. Investigates formal and informal communication networks to gain a greater understanding of the vital role that they play within organizational structures and operations. Prerequisite: COM 1101.

COM 3370 STORYTELLING IN PERFORMANCE 3 cr.
This course will involve the study of the history and theories of storytelling. During the semester, each student will have practice in the creation, development, and performance and criticism of at least three types of stories. Graduate students will be expected to do a term paper and more coaching.

COM 4400 COMMUNICATION THEORY 3 cr.
Study of the major concepts, principles, models, and theories of human communication including, General Systems Theory, General Semantics, role behavior, the diffusion of innovation, the role of language in communication, linguistics, and the psychology of communication. These provide a framework for an investigation of the process of communication on the intra personal, interpersonal, small group, one-to-many, and mass media levels.

COM 4401 PERSUASION 3 cr.
A study of the psychology of persuasion and its use in a free society, and propaganda and its effect on our daily living. Prepares the student to evaluate persuasive messages, to use persuasion effectively, and to appreciate the ethics of persuasion.

COM 4403 SPEECH WRITING 3 cr.
Practical experience in the techniques of speech writing for speakers and public relations practitioners. Emphasis is placed on actual speech writing situations.

COM 4404 TELEVISION REPORTING 3 cr.
Focus is on concepts and practice of broadcasting techniques as applied to live and taped television performance. Prerequisite: COM 2203, 3303 and 3304 or permission of instructor.

COM 4410 (THT) INTERNSHIP 6 - 15 cr.
Supervised and evaluated participation in varied settings provides practical application of theoretical principles. May be taken for six through fifteen credits.

COM 4415 CONTEMPORARY AMERICAN HUMOR 3 cr.
A critical study of contemporary humor employing a variety of communication theories of analysis and criticism. Areas such as television, film, writing, and stand-up will be examined. Prerequisite: COM 1101.

COM 4420 PUBLIC RELATIONS WORKSHOP 3 cr.
Practical study of public relations. Each student is involved in planning and directing a campaign proposal for a non-profit organization and implementing at least one special event. Prerequisites: COM 2210, JN 1100, COM 3320, or permission of instructor.

COM 4425 PUBLIC COMMUNICATION 3 cr.
Advanced study of the construction, preparation and delivery of public performance. Designed to familiarize the student with the research, audience analysis and rhetorical criticism skills necessary for the presentation and evaluation of professional speeches. Prerequisites are COM 1101 or permission of the instructor.

COM 4435 INTERNATIONAL BROADCASTING 3 cr.
Designed to familiarize students with international broadcasting systems and global communication issues. Lectures, research projects, and classroom presentation of international radio and television programming examples are used to broaden perspectives and international understanding. Prerequisite: COM 2201 and 2220.

COM 4440 COMMUNICATION LAW 3 cr.
Provides a background in communication law as it affects the conduct of the print and electronic media industries. Will study landmark cases and investigate legal industry, and ethical issues which confront communication professionals. Prerequisite: COM 2201.

COM 4450 (THT) SPECIAL PROJECTS 1 - 3 cr.
A project initiated by the student to increase his/her knowledge in an advanced area not offered as a regular class. Intensive study of a subject area under the guidance of a faculty member who has special expertise in that subject. Prerequisite: permission of instructor. May be taken for 1 through 3 credits, but not to exceed 9 credits total.

COM 4485 SMALL GROUP COMMUNICATION
Learning how to work effectively in groups. The dynamics of cooperative communication situations and skills associated with interpersonal relations and group goal achievement. Emphasis on presentational speaking, agenda management, problem solving, decision making, conflict and cohesion, project management, leadership, participation theory, listening, verbal and nonverbal choices, planning and conducting meetings.

COM 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 - 3 credits at one time.

DIETETICS

DIT 1101 PERSONAL NUTRITION 3 cr.
Examines how good nutrition improves health and risk factors for nutrition related diseases. This is an excellent course for people who wish to improve their eating habits. This course DOES NOT fulfill requirements for the Nursing program.

DIT 2211 INTRODUCTION TO NUTRITION 3 cr.
Introduces the science of nutrition, the nutrient needs of the body, and the foods that meet these needs.

DIT 2220 NUTRITION AND EXERCISE 3 cr.
An in-depth look into nutrition and exercise and how they work together to prevent chronic disease.

DIT 3300 CULTURAL NUTRITION AND FOOD 3 cr.
A study of the nutrient needs and food habits of individuals from various countries and ethnic backgrounds.

DIT 3305 PRINCIPLES OF FOOD SCIENCE 3 cr.
Applies physical and chemical principles as related to the selection, preparation, and storage of food.

DIT 3306 MEAL MANAGEMENT 3 cr.
A study of the principles of planning, preparation, and service of meals. Discussion of food safety, sanitation, marketing, menu planning and government regulations are included. Prerequisite: DIT 2211, 3305 and permission of instructor.

DIT 3314 NUTRITION THROUGHOUT THE LIFE CYCLE 3 cr.
Nutritional requirements and assessment of humans from conception to old age, including the study of nutrition as it relates to health and disease common to each phase of the life cycle. The impact of societal and environmental factors on nutrient intake will be examined. Prerequisite: DIT 2211 or permission of instructor.

DIT 3315 FOOD SERVICE ORGANIZATION AND MANAGEMENT 3 cr.
Management functions in the food service industry. Methods, procedures, and techniques in dealing with personnel. Prerequisite: DIT 3305 and 3306 or permission of the instructor.

DIT 3316 COMMUNITY NUTRITION 3 cr.
Addresses issues of nutrition services in the community including needs, assessment, implementation, and program evaluation. Provides opportunity for student to become familiar with WIC, school lunch, congregated meals, cooperative extension, etc. Prerequisite: DIT 2211 or permission of instructor.

DIT 3325 NUTRITION COUNSELING AND EDUCATION 3 cr.
Counseling theory and techniques, interviewing techniques, and group communication will be discussed. The student will have the opportunity to practice counseling individuals on nutrition. Health promotion and disease prevention will be highlighted throughout this course. Prerequisites: PSY 1101, DIT 2211, 3314 & 3316.

DIT 3330 SPORTS NUTRITION 3 cr.
Scientific basis for sports nutrition. Basic nutrition concepts, energy expenditure during various types of exercise, diet during training, meal recommendations, use of supplements and erogenic aids, special recommendations for groups of athletes. An excellent course for athletes, coaches, and active people..Prerequisite: DIT 2211.

DIT 4401 MEDICAL NUTRITION THERAPY I 3 cr.
The basic methods of dietary modification, including food exchange systems, nutrition assessment of patients, charting techniques, standards of professional practice; medical nutrition therapy for patients with injury, surgery, recovery, obesity and eating disorders, diabetes, and allergies. Prerequisites: DIT 2211, 3305, CHM 1101, 1102 or permission of instructor.

DIT 4402 MEDICAL NUTRITION THERAPY II 3 cr.
Medical nutrition therapy including the following conditions: nutrition support, digestive tract diseases, anemia, heart disease, pulmonary disease, renal disease, neoplastic disease, HIV positive and AIDS, nervous system diseases, and metabolic disorders. Prerequisites: DIT 2211, 3305, 4402, CHM 1101, 1102 or permission of instructor.

DIT 4411 QUANTITY FOOD PRODUCTION 4 cr.
Quantity food production, menu planning, purchasing, receiving, and sanitation and safety techniques in food service. Laboratory experience in quantity food production. Prerequisite: DIT 3305 and 3306 or permission of instructor.

DIT 4417 ADVANCED NUTRITION 3 cr.
Chemistry of nutrients, metabolism, and normal nutritional requirements throughout the human life cycle. Prerequisite: eight credits in Chemistry, three credits in foods and DIT 2211.

DIT 4419 DIETETICS PRACTICUM 3 cr.
Students are employed or volunteer in a hospital or food service operation. A written description and an oral presentation of their experience is required. Equivalent of six weeks employment. Prerequisite: DIT 4401, 4402 and 4411 or permission of instructor, overall 2.5 QPA and 3.0 QPA in the major, 21 credits with DIT prefix, and senior status.

DIT 4420 NUTRITION RESEARCH SEMINAR 3 cr.
Contemporary issues in nutrition and dietetics will be discussed. The student will learn research methodology and how to interpret current research in the field. Prerequisite: completion of at least 75 credit hours with 12 credit hours in nutrition and dietetics or permission of instructor.

DIT 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 - 3 credits at one time.

ECONOMICS

***ECO 1101 PRINCIPLES OF MACROECONOMICS 3 cr.**
An introduction to aggregate economics with emphasis on interdependence of sectors of an economy, aggregate concepts, determination of national income and fiscal and monetary policy for stabilization.

***ECO 1102 PRINCIPLES OF MICROECONOMICS 3 cr.**
Examines the mechanism of the free enterprise system; pricing, production, and employment under various market conditions; functional distribution of income; selected topics in modern theory of general equilibrium and welfare economics.

***ECO 2204 HISTORY OF ECONOMIC THOUGHT 3 cr.**
A study of economic ideas from the eighteenth century to the present. A brief review of physiocracy and mercantilism followed by a closer survey of classical liberalism, pre-Marxist and utopian socialism. Marxism, neoclassicism, institutionalism, and other contemporary developments. Prerequisite: ECO 1101 and 1102 or permission of instructor.

***ECO 2205 CONTEMPORARY ECONOMIC PROBLEMS 3 cr.**
Examination of some of our crucial economic problems: unemployment, inflation, poverty; also some of the minor issues: right-to-work, national debt, and of several international concerns, e.g., the Common Market. Prerequisite: ECO 1101 and 1102 or permission of instructor.

ECO 3301 INTERMEDIATE MACROECONOMIC THEORY 3 cr.
Develops models of the macroeconomy and analyzes the level and distribution of income, theories of unemployment, theories of consumption, theories of the public economy, theories of investment, the role of money, theories of crisis, theories of inflation, and theories of growth from alternative paradigms. A macroscopic view of the economy and the ability to analyze and forecast business conditions are developed. Prerequisite: ECO 1101 and 1102 or permission of instructor.

ECO 3302 INTERMEDIATE MICROECONOMIC THEORY 3 cr.
Introduction to the models and methods of modern microeconomic theory, concentrating on individual and firm decision making and on industry equilibrium; a brief treatment of general equilibrium theory and welfare analysis. Prerequisite: ECO 1101 and 1102 or permission of instructor.

ECO 3305 ECONOMETRICS 3 cr.
The orientation of this course is toward the analysis and interpretation of economic data. This course will examine the general linear regression model and its application to economics, including violations of the classical model assumptions.

ECO 3310 BUSINESS AND ECONOMIC FORECASTING 3 cr.
This course is an introduction to the various methods economists and business managers use to forecast economic variables. Topics covered include regression techniques, exponential smoothing, decomposition of time series, moving averages, ARIMA models, and VAR models. Prerequisites: ECO 1101, 1102, and MA 1125.

ECO 3311 MONEY AND BANKING 3 cr.
An inquiry into the monetary system of the U.S. Brief examination of historical development; the functioning of monetary policy is considered. Emphasis is on the public/private nature of our banking system. Prerequisite: ECO 1101 and 1102 or permission of instructor.

ECO 3312 FINANCIAL MARKETS AND INSTITUTIONS 3 cr.
This course is an introduction to the money and capital markets of the united States, with an emphasis on the determination of financial asset value and the management of interest rate risk. Topics include the determination of financial asset value and the management of interest rate risk. Topics include the determination of interest rates, valuation of financial claims, financial markets, futures and options, managing interest rate risk, managing credit risk, asset management and pricing, liability management, and government regulation.

ECO 3315 PUBLIC FINANCE 3 cr.
Investigates theories of taxation; normative and positive theories of the public economy; various taxes; tax incidence and the distribution of income and wealth; taxes and microeconomic behavior; and the distribution of expenditure benefits. Provides students with an understanding of the functions of taxation and public expenditures in the process of accumulation and legitimization. Prerequisite: ECO 1101 and 1102.

ECO 3321 COMPARATIVE ECONOMIC SYSTEMS 3 cr.
Comparative analysis of different ways that countries solve their fundamental economic problems. Covers all systems from Capitalism to Communism. Prerequisite: ECO 1101 and 1102 or permission of instructor.

ECO 3325 DEMOGRAPHIC ANALYSIS 3 cr.
Demographic Analysis is an introduction to the field of demography with emphasis on the methods used to analyze the social and economic characteristics of a population. Attention is paid to applications in a variety of disciplines including marketing and social services planning. Technology employed includes computer mapping, electronic census data, and geographic information systems.

ECO 3333 INTERNATIONAL ECONOMICS 3 cr.
A study of the economics aspects of international relations with particular emphasis on the economic basis for trade, international monetary problems, commercial policy, and international agencies and agreements. Prerequisite: ECO 1101 and 1102 or permission of instructor.

ECO 4401 LABOR ECONOMICS 3 cr.
Equal consideration is given to the market and institutional factors of labor management relations. The role of government especially as defined in major legislation is examined. Historical development of trade unions serves as an introduction. Prerequisite: ECO 1101 and 1102 or permission of instructor.

ECO 4405 MATHEMATICAL ECONOMICS 3 cr.
An introduction to using mathematical tools in economic analysis. Prerequisite: ECO 1101, 1102 and MA 1129 or permission of instructor.

ECO 4420 INDUSTRIAL ORGANIZATION 3 cr.
Examines the market structure, conduct, and performance in the unregulated sector of the American economy. Characteristics and economic problems of regulated public utilities is also studied, as well as, public policies related to promotion or restriction of competition. Prerequisite: ECO 1101 and 1102 or permission of instructor.

ECO 4450 INTERNSHIP 3 - 12 cr.
Designed to allow the student the opportunity to learn in a professional setting. It must involve the application of economic theory and provide an opportunity for work involving the application of academic skills. Consult an academic advisor for departmental internship policies. May be taken for 3 through 12 credits.

ECO 4485 MANAGERIAL ECONOMICS 3 cr.
A rigorous development and application of microeconomic theory with an emphasis on the tools and techniques most useful to managers in a decision making environment. Topics include demand analysis, production and cost analysis, market structure, pricing strategies, risk analysis, estimation and forecasting. Prerequisite: MA 1125 and 1170 or permission of instructor.

ECO 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

EDUCATION

ED 1100 SCHOOLS AND SOCIETY 3 cr.
An exploration and examination of the critical issues/concerns facing public policy in education and demonstrating knowledge about education in today's society.

ED 1102 INTRODUCTION TO EDUCATION 3 cr.
An introduction to professional careers in elementary, secondary and special education. Students examine teaching responsibilities, certification requirements, career prospects, and attributes of successful teachers. Topics include historical and social foundations of education, schools in a multicultural society, political influences on education, observations in schools, frameworks for teaching, and beginning a professional portfolio.

ED 2202 SECONDARY PRE-PROFESSIONAL EXPERIENCE 2 cr.
Introduction to observation and participation in the secondary schools, including a field experience component. Students will develop a greater understanding of the secondary school as a setting for teaching and learning. Prerequisite: ED 1102.

ED 2205 (PSY) EDUCATIONAL PSYCHOLOGY 3 cr.
A study of the application of learning theory principles to the educational and institutional setting. Provides demonstrations and field experiences to enhance the applicability of these principles. Prerequisite: PSY 1101.

ED 2245 TUTORING FOR LITERACY 3 cr.
Students will learn tutoring techniques and will learn how to recruit, train, and evaluate tutors in basic, higher and adult educational programs. Students will learn principles of andragogy as contrasted to pedagogy, lifelong learning, and volunteerism. Students will participate in a minimum of 40 hours of community service tutoring.

ED 3260 ASSESSMENT IN EDUCATION 3 cr.
A basic testing and measurements course. Students study the domains of educational objectives, evaluation theory, the application of basic statistics to test data, and principles for selecting and interpreting standardized tests. Students will develop a test related to their area of teaching specialization.

ED 3302 INSTRUCTIONAL TECHNOLOGY 2 cr.
An introduction to both traditional and contemporary types of instructional media including micro-computers, interactive tele-teaching, and telecommunications. Students demonstrate skill in the use, production, and operation of selected areas of this technology.

ED 3306 TUTORING IN THE EDUCATIONAL SYSTEM 3 cr.
Offers training in tutoring techniques for various subjects. Provides information in training, utilizing, and evaluating tutors in elementary and secondary classroom. Students participate in supervised tutoring sessions with college students.

ED 3310 CONTENT AREA READING AND WRITING 3 cr.
Designed to provide instructional experiences that enable secondary content teaching candidates and special field teacher candidates to develop selected basic knowledge, skills, and attitudes regarding the reading learning process. Co-requisite: ED 3320.

ED 3312 TEACHING SECONDARY ENGLISH LANGUAGE ARTS 3 cr.
Designed to prepare the student for the teaching of middle school/junior/senior high school English communication arts. In investigating the present resources of the school, the needs of the learners, and the potential for development in the field of English language study, the student will be preparing to function in either a traditional or experience-based school curriculum.

ED 3313 TEACHING SECONDARY SCIENCE AND TECHNOLOGY 3 cr.
Designed to prepare preservice teachers to teach science and technology to middle school and high school students. Content in the course includes principles, materials, strategies, and techniques for teaching science and technology.

ED 3314 TEACHING SECONDARY MATHEMATICS 3 cr.
Examines methods of teaching secondary school mathematics in the "Information Age", the mathematics education reform movement, curricular changes and the standards for school mathematics, instructional methodology, use of materials, and development of skills required of secondary school mathematics teachers.

ED 3316 TEACHING SECONDARY SOCIAL STUDIES 3 cr.
This course provides a background in the methods and materials for the teaching of social studies. Emphasis is placed on self-directed inquiry that focuses on identifying issues, problems, and contexts, and on methods to incorporate this knowledge and these skills into classroom instruction. Students will have an opportunity to plan and implement strategies in the classroom, including the use of technology. Prerequisites: ED 1102 and have completed requirements to be admitted as a Teacher Education Certification Candidate (Gate one).

ED 3317 TEACHING SECONDARY FOREIGN LANGUAGES 3 cr.
Emphasizes methods of teaching language skills, lesson organization, language resources, multi media applications including computer technology and the history of foreign language teaching.

ED 3320 OBSERVATION AND PARTICIPATION - SECONDARY 3 cr.
Provides secondary education students with opportunities to observe and participate in secondary schools prior to student teaching. Topics addressed include effective teaching and classroom discussion techniques, lesson and unit planning, and classroom management and discipline. Students receive supervision and feedback on their classroom performance from classroom teachers and the college instructor. Co-requisite: ED 3310.

ED 4400 STUDENT TEACHING 12 cr.
(By arrangement) Opportunity to apply knowledge and skills acquired in professional preparation. Accomplished by a field experience in university established centers under supervision of qualified cooperating teachers. Observations and conferences are scheduled by the departmental supervisor.

ED 4401 HISTORY AND PHILOSOPHY OF EDUCATION 3 cr.
Foundations course in the study of professional foundations of education and the relationship that exists between the school and the society it serves. The course reviews cultural, historical, and educational milestones from the Greeks to modern time.

ED 4402 CONTEMPORARY ISSUES IN EDUCATION 2 cr.
A course preparing students for entering the teaching profession, first as a student teacher, and second as a beginning teacher. Emphasis is placed on issues and trends in education.

ED 4410 HISTORICAL AND CURRENT ISSUES IN EDUCATION 3 cr.
Foundations of the historical and philosophical bases of education in a democracy and the relationship that exists between the school and the society it serves. Reviews cultural, historical, and educational milestones from the Greeks to modern times, with specific focus on contemporary education. A major facet of the study will be how education can effect societal change with reference to futurists' predictions of demands and opportunities for education in the twenty-first century. Prerequisite: junior or senior standing.

ED 4460 PROFESSIONAL SEMINAR 2 cr.
Designed to develop and refine professional competencies prior to accepting a teaching position. Topics include current issues; school organization, administration, and law; techniques for seeking a professional position; teacher certification issues; collective bargaining and unions; philosophies of teaching; seeking a professional position; and beginning a teaching career. Prerequisite: Senior standing in teacher education; taken during student teaching semester.

ED 4480 COMPUTERS IN EDUCATION 3 cr.
Designed to instruct undergraduate education majors in the various uses of computers in the schools.

ED 4482 COMPUTERS IN EDUCATION - METHODS AND MATERIALS 3 cr.
Designed to instruct undergraduate education majors in the design and organization of computer learning environments; and in the selection, utilization, and evaluation of courseware.

ED 4485 TEACHING OF ADULTS 3 cr.
Designed to identify characteristics and needs of various target groups choosing or needing to be involved in educational offerings for adults. Explores lifelong learning as a phenomenon relative to many societal influences, and develop programs, teaching modules, and units which serve both society and the individual.

ED 4488 DISTANCE LEARNING AND TELETEACHING 3 cr.
A survey and analysis of the distance learning movement in the United States with an emphasis on audio graphics tele-teaching.

ED 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 - 3 credits at one time.

ELEMENTARY EDUCATION

ELE 1150 INTRODUCTION TO EARLY CHILDHOOD EDUCATION 3 cr.
An introduction to the teaching of young children, birth through age eight; current issues and practices; historic and future trends; and assessment of one's strengths and interests related to the career opportunities in early childhood education. Prerequisite: ED 1102

ELE 2202 PRE-PROFESSIONAL EXPERIENCE 2 cr.
Provides sophomores with clinical experiences in elementary education which include identification and analysis of current educational practices, brief episodes of exploratory teaching, investigations of career possibilities and their requirements, an orientation to the Education Department and informal advisement seminars.

ELE 2220 CHILD DEVELOPMENT 3 cr.
Examines development from conception and infancy, through preschool and middle school, and ends with adolescence. Major developmental theories that focus on the interaction of heredity and the environment are the key components.

ELE 3263 PRESCHOOL CURRICULUM AGES 3 - 5 3 cr.
Addresses aspects of a quality preschool program. Topics this course examines include: theoretical foundations of teaching and learning, children ages 3 - 5; preschool curriculum models; key components of a preschool program; an integrated curriculum to foster children's development; and adapting curricula for children in inclusive preschool settings. This course will require observations and participation in a preschool setting.

ELE 3301 OBSERVATION AND PARTICIPATION - ELEMENTARY 3 cr.
Provides juniors with the following observation, participation and professional guidance experiences: observation of an elementary classroom; orientation to policies and practices of an elementary school; opportunity to observe the in-service teacher in the performance of his/her duties; introduction to administrative duties of an elementary classroom; the privilege of working with individual children, small groups of children and an entire classroom under supervision; and the opportunity to receive feedback on performance from the cooperating teacher and the college supervisor.

ELE 3360 CHILDREN'S LITERATURE 3 cr.
Uses of children's literature in the preschool and elementary school curriculum; promoting interest in children's books; social themes and issues reflected in children's literature.

ELE 3362 EMERGING LITERACY 3 cr.
Theoretical foundations and the components of a developmentally appropriate literacy program for children ages 4-8 are introduced. Topics include: teaching and assessment strategies, instructional resources, classroom management, grouping for instruction, and involving parents.

ELE 3383 TEACHING ELEMENTARY READING AND LITERATURE I 3 cr.
Theoretical bases of the reading process; components of reading skill; major approaches to instruction; methods and materials for teaching elementary reading are examined.

ELE 3384 TEACHING ELEMENTARY MATHEMATICS 3 cr.
Methods of teaching mathematics in the "Information Age", the reform movements curricular changes and emphasis, instructional methodology and use of materials, and development of mathematics skills required of elementary school teachers are examined.

ELE 3386 TEACHING ELEMENTARY SOCIAL STUDIES 3 cr.
Principles, problems, materials, and techniques for the teaching of elementary social studies. In-school experience provided.

ELE 3387 TEACHING ELEMENTARY SCIENCE AND TECHNOLOGY 3 cr.
Principles, problems, materials, and techniques for teaching science and technology in the elementary school.

ELE 3391 BEHAVIORAL, SOCIAL, AND EMOTIONAL ISSUES 3 cr.
Addresses "at-risk" factors in children and the classroom techniques that teachers may use to address students' behavioral, social, and emotional needs. Topics examined in the course include classroom management and discipline, students' social relationships, students' emotional well being, and gender issues in teaching. Teachers will learn to identify students who are victims of physical abuse and to make appropriate professional referrals.

ELE 3395 CREATIVE EXPERIENCES IN ELEMENTARY TEACHING 3 cr.
Examines the nature of creativity and varied uses of creativity and the arts in elementary lesson planning, teaching, and curriculum development; areas of study include art, music, drama, storytelling, movement and dance, poetry, and children's literature; emphasis is placed upon the uses of creativity and the arts by classroom teachers to enhance their teaching across the curriculum.

ELE 4400 STUDENT TEACHING 12 cr.
(By arrangement) Opportunity to apply knowledge and skills acquired in professional preparation. Accomplished by a field experience in university established centers under supervision of qualified cooperating teachers. Observations and conferences are scheduled by the departmental supervisor.

ELE 4402 SELECTED TOPICS IN ELEMENTARY EDUCATION 1 - 3 cr.
Designed to let students carry out in-depth studies in elementary teaching techniques. Includes lectures, seminar periods, and resource persons. Emphasis on student leadership, participation, and reading and discussion of educational literature. May be taken for one through three credits.

ELE 4403 TEACHING ELEMENTARY LANGUAGE ARTS 3 cr.
Designed as a workshop for undergraduate students who have completed ELE 3301. Emphasis is on investigating techniques used by elementary teachers to improve communication skills for children.

ELE 4405 EARLY SCHOOL CURRICULUM AGES 6-8 3 cr.
Addresses aspects of a quality early school program (K-3rd grade). Topics examined in this course include: theoretical foundations of teaching and learning with children, age 6-8; perspectives that inform curriculum planning; components of an early grade program; an integrated curriculum; and adapting curricula for children in inclusive settings. Students will team-teach with classmates in an early grade in a local school. Prerequisite: ELE 1150 and 3263.

ELE 4412 READING/WRITING IN BRITISH SCHOOLS 3 cr.
An examination of the integrated language arts curriculum employed in British education. This companion course to "Introduction to British Education" includes first-hand experiences observing and participating techniques used by British schools.

ELE 4425 TEACHING ELEMENTARY READING AND LITERATURE II 3 cr.
Tests and techniques to prevent, detect, and correct reading difficulties; special methods and materials for problem readers. Prerequisite: ELE 3383

ELE 4460 PROFESSIONAL SEMINAR 2 cr.
Designed to develop and refine professional competencies prior to accepting a teaching position. Topics include current issues; school organization, administration, and law; techniques for seeking a professional position; teacher certification issues; collective bargaining and unions; philosophies of teaching; seeking a professional position; and beginning a teaching career. Prerequisite: Senior standing in teacher education; taken during student teaching semester.

ENGLISH

ENG 0045 CONVERSATIONAL AND WRITTEN ENGLISH FOR INTERNATIONAL STUDENTS 3 cr.
Designed to raise skills of international students in conversation and elementary English grammar so they are competent to function in classes at the university that are taught in English. Students learn and practice grammar, syntax, and idioms through written drills, oral exercises, and practice paragraphs. Open to students who score 515 or below on TOEFL test. Two hours a week are required in the language lab. Meets 0090 requirement. DOES NOT COUNT TOWARD TOTAL CREDITS NEEDED FOR GRADUATION.

ENG 0090 BASIC WRITING SKILLS 3 cr.
Designed to prepare students to do college-level writing. DOES NOT COUNT TOWARD TOTAL CREDITS NEEDED FOR GRADUATION.

ENG 1112W COMPOSITION I 3 cr.
Intensive reading and writing of expository prose. Analytical and critical thinking and college-level research skills are emphasized. Prerequisite: Exemption from ENG 0090 or equivalent transfer course.

***ENG 1115 INTRODUCTION TO LITERATURE 3 cr.**
Introduction to reading poetry, fiction, drama for understanding and enjoyment.

ENG 1130 INTRODUCTION TO LITERARY STUDIES 3 cr.
An intensive introduction to the discipline of literary studies for current and prospective English majors. Students will become acquainted with literary genres and terms, learn strategies for reading and understanding literature, and develop critical skills for discussing and analyzing literary texts. Offered in the Spring semester. Prerequisite ENG 1112W.

ENG 2202 CREATIVE WRITING 3 cr.
Explores the fundamentals of creative writing through the use of writing exercises and the discussion of selected stories, poems, and creative essays. Emphasis will be placed on a portfolio of work submitted at the end of the semester.

***ENG 2203 READINGS IN ANCIENT LITERATURE 3 cr.**
Introduction to some of the major characters, events, and ideas in the Greek, Roman, and Judeo-Christian mythologies that have so heavily influenced Western culture. (Mythology signifies the study of recurring patterns in thought and literature, not the separation of truth from fiction).

***ENG 2204 READINGS IN WORLD LITERATURE 3 cr.**
Selected readings from nineteenth and twentieth century world literature, excluding British and American.

***ENG 2207 READINGS IN BRITISH LITERATURE 3 cr.**
Selected readings from British literature.

***ENG 2208 READINGS IN AMERICAN LITERATURE 3 cr.**
Selected readings from American literature.

***ENG 2220 SPECIAL TOPICS IN LITERATURE 3 cr.**
A study of one of the following topics: Black Literature, Women's Literature, other Minority Literature, Recent Literature, Film, or Folklore. May be repeated for a total of 9 credits.

***ENG 2225 ENGLISH GRAMMAR 3 cr.**
A systematic description of the rules of modern English grammar, making use of both traditional and contemporary grammatical theories. Offered fall semester.

***ENG 2226 HISTORY OF THE ENGLISH LANGUAGE 3 cr.**
A study of the development of the English language from Old English to modern times with special attention to the causes of linguistic change. Offered spring semester.

ENG 3268 SURVEY OF BRITISH LITERATURE I 3 cr.
Survey of major British literature from Beowulf through Neoclassicism. Offered fall semester. Prerequisite: ENG 1112W.

ENG 3269 SURVEY OF BRITISH LITERATURE II 3 cr.
Survey of major British literature from the Romantics through the present. Offered spring semester. Prerequisite: ENG 1112W.

ENG 3278 SURVEY OF AMERICAN LITERATURE I 3 cr.
Survey of 17th, 18th, and early 19th century American writers. Offered fall semester. Prerequisite: ENG 1112W.

ENG 3280 SURVEY OF AMERICAN LITERATURE II 3 cr.
Survey of late nineteenth and twentieth century American writers. Offered spring semester. Prerequisite: ENG 1112W.

ENG 3281 INTRO TO LINGUISTICS 3 cr.
Methods of analysis and description of language and ways in which human beings use their language. Of interest to students who wish to continue study of linguistics as well as those in a variety of professions who wish to read with understanding linguistic literature in their own field.

***ENG 3305 COMPARATIVE LITERATURE 3 cr.**
Examines major works in a genre or movement, comparing two or more national literatures. May be taken for a total of nine credits. Offered spring semester. Prerequisite: ENG 1112W.

ENG 3307 LITERATURE IN ENGLISH FROM AROUND THE WORLD 3 cr.
Study of literature written in English outside of the British Isles and the United States. Offered fall semester. Prerequisite: ENG 1112W.

ENG 3312 INTRO TO FICTION WRITING 3 cr.
Designed to help students find their true voice and true concerns as writers while mastering the essentials of the art. Emphasis is on writing exercises and then complete works, but also on becoming better readers. In-depth discussion of student work, the assigned readings, and the process of writing. Prerequisite: ENG 2202 or permission of instructor.

ENG 3313W COMPOSITION II 3 cr.
Advanced writing and analytical thinking based on texts from across the curriculum. Must be passed with a minimum grade of "C-" before graduation. Prerequisites: ENG 1112W and a minimum of 45 credits earned.

ENG 3314 INTRO TO POETRY WRITING 3 cr.
Designed to help students discover and develop their voices and styles as poets. Explore poetry writing through writing exercises, through reading and discussing poems written by contemporary poets, and through discussing one another's poems in a supportive atmosphere. Prerequisite: ENG 2202. Offered fall semester.

ENG 3316 CREATIVE NON-FICTION PROSE WRITING 3 cr.
Students will write about subjects of interest and importance to them using literary techniques and devices. Will read and discuss a selection of book-length non-fiction works: memoirs, diaries, socio-political commentary, and nature writing. Writing techniques and exercises designed to stir creativity and stimulate ideas will be used. Prerequisite: ENG 2202.

***ENG 3320 SPECIAL TOPICS IN LITERATURE 3 cr.**
A specialized study of a topic in literature, film, or folklore. May be taken for a total of 9 credits.

ENG 3324 COMP THEORY & PRACTICE 3 cr.
Analysis of current theories about the writing process and methods of applying these theories, with actual practice in tutoring writing. Offered fall semester. Prerequisites: ENG 1112W and ENG 3313W.

ENG 3326 WOMEN'S LITERATURE 3 cr.
A study of literature by and about women in its literary, cultural, and social contexts. May be topical, thematic, or period-based. May include such authors as Austen, Bronte, Chopin, Woolf, Emecheta, Morrison, and Tan. Prerequisite ENG 1112W

ENG 3327 AFRICAN AMERICAN LITERATURE 3 cr.
This course studies a prominent dimension of African-American Literature. Potential topics include specific genres, important time periods, major or minor authors, comparative multicultural contexts. Students hone their critical reading and writing skills in this important and growing area of American literature. Prerequisite: ENG 1112W. Offered Spring of odd years.

ENG 3328 LESBIAN AND GAY LITERATURE 3 cr.
This course focuses on literature by and about lesbian, gay, bisexual, and transgender (LGBT) people, and what it is to be LGBT in our society. Literature will be studies in conjunction with film, music, television, newspaper and magazine articles, art, and history. The emphasis of the course will be on active discussion and close scrutiny of the literature, our society, and ourselves. Prerequisite ENG 1112W. Offered spring of even years.

ENG 3329 REGIONAL LITERATURE 3 cr.
A study of literature unique to a particular region of the United States. Topics may include literature specific to broad regions such as the American South, the American West, or Appalachia; literature specific to life in individual states, such as Pennsylvania literature; or literature specific to life in a particular urban area, such as the literature of New York City. Prerequisite ENG 1112W. Offered fall of odd years

ENG 3332 NATURE WRITING 3 cr.
Based on reading, observation, and experience, students will write creative non-fiction prose about nature and discuss each other's work. The course will deal with such issues as the importance of place, the role of science in personal responses to nature, the nature of Nature, and the meaning of "nonfiction" in nature writing. Offered spring semester.

ENG 3333 ADVANCED WRITING FOR ENGLISH MAJORS 3 cr.
Designed to refine the writing skills of English majors, with an emphasis on critical analysis and the mechanics of writing. Students will read and write about a literary, rhetorical, or linguistic concept chosen by the instructor (irony in literature, for example) and revise at least one essay from their English portfolio. Offered fall semesters. Prerequisite: ENG 1130 and two upper division ENG classes.

ENG 3350 OLD AND MIDDLE ENGLISH LITERATURE 3 cr.
Study of major British writers and works from the Anglo Saxon period to 1500. Selections may include "Beowulf," "The Wanderer," "The Seafarer," a selection of Middle English lyrics, a mystery play, "Everyman," "Sir Gawain and the Green Knight," or "The Pearl," a selection of tales from Chaucer's "The Canterbury Tales" and/or selections from Malory. Prerequisite: ENG 1112W. Offered fall of even years.

ENG 3351 ENGLISH RENAISSANCE LITERATURE 3 cr.
English Renaissance literature studies writers, ideas, and historical context of the period 1500 to 1660, the Reformation through the Civil War. Emphasis on such representative texts as Spenser's "Faeirie Queene," Shakespeare's "Macbeth," the works of the Metaphysical poets, Ralegh's "History of the World," and Milton's "Paradise Lost." Prerequisites: ENG 1112W. Offered spring of even years.

***ENG 3352 SHAKESPEARE 3 cr.**
Selected plays of Shakespeare with interpretation, evaluation, and attention to his development as a dramatist and poet. Offered fall semester.

ENG 3356 EIGHTEENTH CENTURY BRITISH LITERATURE 3 cr.
Study of major British writers from 1660 to 1800 such as Dryden, Swift, Pope, Gay, Fielding, and Johnson. Offered spring of odd years. Prerequisite: ENG 1112W.

ENG 3359 NINETEENTH CENT BRIT LIT 3 cr.
Study of major British writers from 1830 to 1900, such as Dickens, G. Eliot, Tennyson, Browning, and Arnold. Offered fall of odd years. Prerequisite: ENG 1112W.

ENG 3360 TWENTIETH CENTURY BRITISH LITERATURE 3 cr.
Study of major British writers of the 20th century, such as Yeats, Eliot, Joyce, Lawrence, Shaw, Beckett, and Pinter. Offered fall of even years. Prerequisite: ENG 1112W.

ENG 3362 AMERICAN ROMANTICISM 3 cr.
Study of major American Romantic writers, such as Emerson, Poe, Hawthorne, Melville, and Whitman. Offered spring of even years. Prerequisite: ENG 1112W.

ENG 3363 AMERICAN REALISM AND NATURALISM 3 cr.
Study of major American writers between the Civil War and World War II, such as Dickinson, Twain, James, Chopin, Crane, Wharton, and Dreiser. Offered fall of odd years. Prerequisite: ENG 1112W.

ENG 3364 TWENTIETH CENTURY AMERICAN LITERATURE 3 cr.
Study of major American writers since World War I, such as O'Neill, Fitzgerald, Cather, Faulkner, Hemingway, Frost, Stevens, and Williams. Offered spring of odd years. Prerequisite: ENG 1112W.

ENG 3376 MAJOR GENRE 3 cr.
A study of a major genre, such as poetry, drama, the novel, short fiction, nonfiction prose, or film. Offered spring semester. Prerequisite ENG 1112W.

ENG 3381 HISTORY OF LITERARY THEORY AND CRITICISM 3 cr.
Survey of Western literary theory and criticism from Plato, Aristotle, and Horace to the New Critics. Offered fall of odd years. Prerequisites: ENG 1112W.

ENG 3382 CONTEMPORARY LITERARY THEORY AND CRITICISM 3 cr.
Survey of recent approaches to literature, including formalist, structuralist, post-structuralist, reader-response, psychoanalytic, feminist, marxist, new historical, and/or post-colonial literary criticism. Offered spring of even years. Prerequisites: ENG 1112W.

ENG 3385 MAJOR AUTHOR 3 cr.
A detailed study of a major author/auteur (or pair of authors/auteurs), such as Chaucer, Milton, Dickens, Bronte, Woolf, Faulkner, Morrison, or Hitchcock. Offered fall semester. Prerequisite ENG 1112W.

ENG 4401 SEMINAR IN LITERARY STUDIES 3 cr.
A sustained, in-depth study of literature which draws on the expertise developed in previous English courses. Topics will vary. Students will complete a seminar-length researched paper/project, culminating in the public presentation of that work. Offered spring semester. Prerequisite ENG 1112W and 75 earned credits.

ENG 4411 ADVANCED FICTION WRITING 3 cr.
Through writing exercises, reading the work of published writers, and workshopping original manuscripts, students will work on creating a portfolio of short fiction. Students will also learn how to market their work. Offered spring semester. Prerequisite: permission of instructor.

ENG 4412 ADVANCED POETRY WRITING 3 cr.
Study of poetry by contemporary poets. Presentations will be made about poets of student's choosing. Learn how to evaluate literary markets, prepare a manuscript to be submitted for publication, and develop a chapbook of poems. Offered spring semester. Prerequisite: ENG 3314.

ENG 4416 NOVEL WRITING 3 cr.
Students will read and discuss published novels and work on writing their own, critiquing and discussing one another's work. Includes the first 3 chapters and a synopsis of the novel. Prerequisite: ENG 3312 or permission of instructor.

ENG 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 - 3 credits at one time.

ENVIRONMENTAL STUDIES

ES 3300 HUMANS IN NATURE 3 cr.
Students explore the relationship between people and the natural world emphasizing modes of analysis drawn from social science, humanities, and art disciplines. The course focuses on the interdisciplinary understanding of selected issues. Prerequisites: GEG 1122 and one of the following: BSC 1103, CHM 1103, GEL 1102.

ES 4497 INDEPENDENT STUDY 3 cr.
Working with an advisor outside the area of their majors, students produce interdisciplinary projects involving the relationship between people and nature. Prerequisite: Completion of 18 hours toward the Environmental Studies minor.

FRENCH

FR 1101 INTRODUCTORY FRENCH I 3 cr.
For beginning students and those with less than two years of high school French. Emphasis is on grammar, pronunciation drills, aural comprehension, speaking, reading, and writing with language lab.

FR 1102 INTRODUCTORY FRENCH II 3 cr.
Continuation of 1101 with language lab. Prerequisite: FR 1101 or equivalent.

FR 2201 INTERMEDIATE FRENCH I 3 cr.
Reading texts, grammar review and further practice in aural comprehension, speaking, and writing with language lab. Prerequisite: three years of high school French or FR 1102.

FR 2202 INTERMEDIATE FRENCH II 3 cr.
Continuation of 2201 with language lab. Prerequisite: four years of high school French or FR 2201.

FR 2205 PHONETICS PRONUNCIATION 1 cr.
Systematic pronunciation drill and phonetic transcription. Prerequisite: FR 1102 or equivalent.

FR 3300 CONVERSATIONAL FRENCH CIVILIZATION 3 cr.
Designed to gain more fluency and develop writing skills. Examines socio-economic, political, and cultural topics. Prerequisite: FR 2202 or equivalent.

FR 3305 ADVANCED FRENCH CONVERSATION 3 cr.
Continuation of 3300. Students make oral commentaries and write reports.

FR 3306 TOPICS IN FRENCH CIVILIZATION (HISTORY) 3 cr.
A brief survey of French history, with particular attention to major events and personalities. Prerequisite: FR 2202 or equivalent.

FR 3307 TOPICS IN FRENCH CIVILIZATION (GEOGRAPHY) 3 cr.
A study of the geography of French-speaking countries. Prerequisite: FR 2202 or equivalent.

FR 3308 TOPICS IN FRENCH CIVILIZATION (AFRO-FRENCH LITERATURE AND CIVILIZATION) 3 cr.
A study of Black literature written in French, Africa, and the West Indies. Prerequisite FR 2202 or equivalent.

FR 3309 TOPICS IN FRENCH CIVILIZATION (CONTEMPORARY PROBLEMS) 3 cr.
A study of the problems facing the people of French-speaking countries. Prerequisite: FR 2202 or equivalent.

FR 3310 BUSINESS FRENCH 3 cr.
An introduction to French business and its terminology: a broad study of the commercial procedures in France with a concentration on the acquisition of the necessary vocabulary.

FR 3320 ADVANCED FRENCH STRUCTURE 3 cr.
A final review of the structure of French and study of short literary texts. Prerequisite: FR 2202 or equivalent.

FR 3330 SURVEY OF FRENCH LITERATURE I 3 cr.
Selected readings of major French writers through the 18th century, outside readings and reports, literary movements, style and form. Prerequisite: FR 2202 or equivalent.

FR 3331 SURVEY OF FRENCH LITERATURE II 3 cr.
Selected readings of major French writers since 1800; outside readings and reports, literary movements, style and form. Prerequisite: FR 2202 or equivalent.

FR 3339 FRENCH LITERATURE OF THE MIDDLE AGES AND RENAISSANCE 3 cr.
Reading and discussion of the beginnings of French literature to the end of the 16th century. Prerequisite: FR 3330 and 3331 or permission of instructor.

FR 3340 FRENCH CLASSICAL LITERATURE 3 cr.
Critical readings and discussion of the major dramatic works of Corneille, Moliere and Racine with supplementary reading on general background. Prerequisite: FR 330 and 331 or permission of instructor.

FR 3341 FRENCH LITERATURE OF THE ENLIGHTENMENT 3 cr.
Reading and discussion of the works of Voltaire, Rousseau, and Diderot. Prerequisite: FR 3330 and 3331 or permission of instructor.

FR 3342 CURRENTS IN NINETEENTH-CENTURY FRENCH LITERATURE 3 cr.
The works of French authors as well as the main currents and form of literary expression from the beginning of Romanticism to the end of the century; Hugo, Balzac, Stendhal, Flaubert, and Zola. Prerequisite: FR 3330 and 3331 or permission of instructor.

FR 3343 ASPECTS OF TWENTIETH-CENTURY FRENCH LITERATURE 3 cr.
Development of the novel and modern French theater: Gide, Alain-Fournier, Proust, Mauriac, Malraux, Sartre, Camus, Bernanos, St. Exupery, Green, and Lonesco. Reading and discussion of major works and a written report. Prerequisite: FR 3330 and 3331 or permission of instructor.

FR 3350 DEVELOPMENT OF FRENCH POETRY 3 cr.
A study of the major works of poets from Villon to the present. Emphasis on interpretation and diction. Study of the French poetic. Prerequisite: FR 3330 and 3331 or permission of instructor.

FR 3370 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
Open to students who wish to continue the study of French abroad. The number of credits granted is based upon validated credentials presented to the department. Plans for foreign study should be submitted at least one semester prior to departure. Regulations regarding study abroad are available in the Office of the Provost/Vice President for Academic Affairs.

FR 3371-3380 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
See FR 3370 for course description.

FR 4400 SENIOR SEMINAR 3 cr.
Special study projects in French language and literature; independent reading in the defined areas followed by written analytical reports in French. Open to seniors and in exceptional cases to juniors.

FR 4405 HONORS COURSE FOR FRENCH MAJORS - CREDIT ARRANGED
An individual problems course. Open to qualified seniors with consent of the department. Credit arranged.

FR 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

GEOGRAPHY

***GEG 1101 WORLD REGIONAL GEOGRAPHY 3 cr.**
Regional study of the world with special emphasis on the diversity of human existence and the world-scale problems currently faced.

***GEG 1102 HUMAN GEOGRAPHY 3 cr.**
Study of aspects and distribution of culture. Topics include: population, health, language, religion, and economic activities.

***GEG 1111 PHYSICAL GEOGRAPHY 3 cr.**
Introduces the earth-science component of geography. Topics include: earth-sun relationships, weather and climate, vegetation, soils, and landforms.

***GEG 1122 ENVIRONMENTAL ISSUES 3 cr.**
Surveys a wide range of environmental issues. Topics include: population growth, soils, floods, water availability and quality, sewage treatment, solid and toxic waste, fossil fuels, nuclear power, and alternative energy sources.

GEG 1130 INTRO INFOGRAPHICS 1 cr.
A basic course in how to make information visible by creating graphs, charts and maps using readily available software. Major topics include which graphics to use, how to design them, how to create them and how to integrate them into papers and presentations.

GEG 3270 GEOGRAPHIC INFORMATION SYSTEMS 3 cr.
An analysis of the emerging field of Geographic Information Systems (GIS) and related technology with emphasis on both raster and vector data systems. Special emphasis is placed on practical applications.

GEG 3280 CARTOGRAPHY 4 cr.
The principles and tools of cartography. Students use a combination of graphics software and mapping software to compile, design, and produce maps.

GEG 3290 (GEL) MAP AND AIR PHOTO INTERPRETATION 4 cr.
Studies the interpretation of maps and aerial photographs. Topics include: location systems, scale, portrayal of relief, introductory surveying techniques, photogrammetry, interpretation principles, and specific applications.

GEG 3300 GEOGRAPHIC RESEARCH 2 cr.
Studies the techniques of research in geography as well as the effective written and oral presentation of results. A research paper is required.

GEG 3312 WEATHER AND CLIMATE 3 cr.
Studies the basic concepts of meteorology and climatology. Topics include: causes and consequences of climate change, surface and upper-level processes, severe storms, clouds, and optical phenomena.

GEG 3321 (GEL) GEOMORPHOLOGY 3 cr.
Studies how landforms develop and change. Surveys the major landform regions and national parks of the United States. Interpretation of aerial photographs is an integral part of the course. Prerequisite: GEG 1111 or GEL 1121 or permission of instructor.

GEG 3330 ADVANCED CARTOGRAPHY 3 cr.
Class-laboratory experience with the application and utilization of modern tools and techniques of cartography and graphics. Emphasis on map design and reproduction.

GEG 3345 WEB BASED CARTOGRAPHY 3 cr.
This course will demonstrate the role and duties of a cartographer or graphic artist in the design and construction of a graphic-intense website. Each student will design and produce an informative and interactive website that presents a thoroughly researched topic. Students will write HTML and simple scripts that control rollovers, image maps, and slided images. In addition, they will learn about scanning, computer animation, and digital photography for the web. Prerequisite: GEG 3280

GEG 3364 GEOSTATISTICS 3 cr.
An introduction to the methods of geographic measurement, such as data-gathering and statistical-computerized analysis. Intended to familiarize students with more advanced methodologies of geographic research.

GEG 3365 URBAN/ECONOMIC GEOGRAPHY 3 cr.
An examination of the basic fundamentals of Economic Geography especially as they apply to the location and functioning or urban places in North America. Special emphasis will be placed on the evolution of North American urban places from frontier outposts to the centers of economic activity they represent today.

***GEG 3380 GEOGRAPHY OF THE UNITED STATES AND CANADA 3 cr.**
An analysis of the physical and human aspects of the United States and Canada. Particular emphasis on regionalism and regional problems.

***GEG 3381 GEOGRAPHY OF PENNSYLVANIA 3 cr.**
Analysis of the regional patterns of Pennsylvania. Topics include: topography, climate, water resources, mineral resources, and the historical development of economic regions within the State.

GEG 4415 SPECIAL PROBLEMS IN GEOGRAPHY 2-4 crs.
Offers extensive field experience and the opportunity to observe, first-hand, a variety of natural and human processes and phenomena. May be taken for two through four credits.

GEG 4420 (GEL) REMOTE SENSING 3 cr.
Examines color and color infrared aerial photography as well as Landsat, SPOT, Thermal and Radar imagery. Computer processing of Landsat data is an integral part of the course. GEG (GEL) 3290 recommended.

GEG 4430 MODERN CARTOGRAPHIC TECHNIQUES 3 cr.
Advanced map design and production topics. Students use a variety of software packages and data sources to produce maps. Prerequisite: GEG 3280

GEG 4431 SEMINAR IN CARTOGRAPHIC PROGRAMMING 1 cr.
Examines computer programming for cartography and Geographic Information Systems. This course will cover spatial data bases, computer graphics, interface design and translations between major file formats. Prerequisite: GEG 3280 and 4430.

GEG 4465 (GEL) SEMINAR IN ENVIRONMENTAL SCIENCE 1 cr.
An upper-level seminar that integrates and applies concepts and skills taught in the basic courses of the Environmental Science emphasis.

GEG 4496 INTERNSHIP 3-12 crs.
Offers practical work experience and the opportunity to apply and further develop skills taught in the Geography Department. May be taken for three through twelve credits. Prerequisite: permission of instructor. All internships will be graded S or U – they do not affect your Q.P.A.

GEG 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

GEOLOGY

***GEL 1102 ENVIRONMENTAL GEOLOGY 3 cr.**
The relationship of man to his environment will be examined with particular emphasis to problems of natural hazards (earthquakes, flooding, landslides), construction, ground water management, resources, utilization, impact mitigation and geological planning.

***GEL 1121 PHYSICAL GEOLOGY 3 cr.**
A study of the solid portion of the earth, the materials of which it is composed and the processes which are acting on it. Included are such topics as rocks and minerals, weathering, and geologic structure.

GEL 3290 (GEG) MAP AND AIR PHOTO INTERPRETATION 4 cr.
Studies the interpretation of maps and aerial photographs. Topics include: location systems, scale, portrayal of relief, introductory surveying techniques, photogrammetry, interpretation principles, and specific applications.

GEL 3302 ENVIRONMENTAL GEOLOGY LABORATORY 1 cr.
A laboratory course for advanced studies in environmental geology. Topics will include; geologic hazards, mapping, mineral resource assessment, economic impact of geologic events and prediction/estimation exercises. Prerequisite: GEL 1102: May be taken concurrently.

GEL 3321 (GEG) GEOMORPHOLOGY 3 cr.
Studies how landforms develop and change. Surveys the major landform regions and national parks of the United States. Interpretation of aerial photographs is an integral part of the course. Prerequisite: GEG 1111 or GEL 1121 or permission of instructor.

GEL 3322 HISTORICAL GEOLOGY 3 cr.
A study of earth history that includes introductory through advanced topics related to geologic time, stratigraphy, paleontology, plate tectonics, an structural geology. Students will apply their new knowledge to solve a number of field, computer, and classroom-based problems. A special emphasis will be placed upon the application of historical geology to mineral resource and geologic hazard assessments. Prerequisite: GEL 1121

GEL 3330 HYDROLOGY 3 cr.
Hydrology is the study of water in the geological environment. Emphasis is on the occurrence, movement, quality, and quantity of surface and groundwater; quantitative geologic and hydrologic methods are included.

GEL 3362 MINERALOGY/PETROLOGY 3 cr.
A study of rocks and minerals that includes: their chemical and physical properties, how they are identified, where they occur, how they form, and their importance to society. Students will be actively involved with specimen identification, worldwide web activities, and presentation assignments. Prerequisite: GEL 1121

GEL 4420 (GEG) REMOTE SENSING 3 cr.
Examines color and color infrared aerial photography as well as Landsat, SPOT, Thermal and Radar imagery. Computer processing of Landsat data is an integral part of the course. Prerequisite: GEG 3340 recommended.

GEL 4465 (GEG) SEMINAR IN ENVIRONMENTAL SCIENCE 1 cr.
An upper-level seminar that integrates and applies concepts and skills taught in the basic courses of the Environmental Science emphasis.

GEL 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

GERMAN

GER 1101 INTRODUCTORY GERMAN I 3 cr.
For beginning students and those with less than two years of high school German. Elements of structure, reading and writing, intensive drill in pronunciation, aural comprehension, and speaking are examined. Language laboratory attendance is required one hour per week.

GER 1102 INTRODUCTORY GERMAN II 3 cr.
Continuation of 1101. Language laboratory attendance is required one hour per week. Prerequisite: GER 1101 or equivalent.

GER 2201 INTERMEDIATE GERMAN I 3 cr.
A review of the structure of the German language with additional emphasis on listening comprehension, speaking, reading, and writing. Language laboratory attendance is required one hour per week. Prerequisite: two years of high school German, GER 1102 or equivalent.

GER 2202 INTERMEDIATE GERMAN II 3 cr.
Continuation of 2201. Increased emphasis on the development of the four language skills, using materials taken from actual cultural and literary selections. Language laboratory attendance is required one hour per week. Prerequisite: three years of high school German, GER 2201 or equivalent.

GER 2205 PHONETICS AND PRONUNCIATION 1 cr.
A study of German phonetics, phonemics, pronunciation, intonation, and rhythm. The theory of the speech and articulatory mechanisms will be studied; extensive practice exercises. Prerequisite: GER 1102 or equivalent.

GER 3300 CONVERSATIONAL GERMAN 3 cr.
Intensive oral practice in German for the development of a higher degree of fluency in the spoken language. Emphasis on topics of cultural, social, economic, and political nature. Prerequisite: GER 2202 or equivalent.

GER 3305 ADVANCED GERMAN CONVERSATION 3 cr.
Intensive development of oral expression for students desiring a higher level of oral fluency. Emphasis is on enabling the student to carry on discussion in more detail and giving oral reports. Prerequisite: GER 2202 or equivalent.

GER 3320 ADVANCED GERMAN STRUCTURE 3 cr.
Study and practical application of the German structural patterns with concentration on the morphology and syntax of the language. Prerequisite: GER 2202 or equivalent.

GER 3321 COMPOSITION AND STYLISTICS 3 cr.
Development of self-expression in writing. Emphasis is on simultaneous development of expression and stylistic writing. Frequent written assignments and at least one significant written assignment of a critical nature. Prerequisite: GER 2202 or equivalent and recommendation of instructor.

GER 3330 SURVEY OF GERMAN LITERATURE I 3 cr.
Designed to acquaint the student with the major literary movements and representative writers of German literature from 1750. Prerequisite: GER 2202 or equivalent.

GER 3331 SURVEY OF GERMAN LITERATURE II 3 cr.
Sequel to GER 3330. A cross section of literary movements and significant writers from the earliest periods through 1750. Prerequisite: GER 2202 or equivalent. GER 3330 is recommended.

GER 3335 PROSEMINAR: DEUTSCHLANDKUNDE 3 cr.
Students will become acquainted with the political, educational, and economic makeup of modern Germany, including special problems of the German reunification. Contemporary German culture will also be examined in its context within society as a whole. In addition, practical aspects of everyday German life (public transportation, mail system, social behavior, etc.) are covered.

GER 3336 PROSEMINAR: LAENDER UND STAEDTE 3 cr.
Emphasis is on the cultural, economic, and social significance of each major geographical region along with main cities and tourist destinations in each. Students will also prepare individual presentations on an area that interests them.

GER 3337 PROSEMINAR: TWENTIETH CENTURY GERMAN LITERATURE 3 cr.
Major literary movements along with works or selections of works by representative authors will be the focus of this course. Techniques and terminology of literary analysis will be covered. Students will prepare a research project on a particular author, genre, or movement.

GER 3338 PROSEMINAR: NINETEENTH CENTURY GERMAN LITERATURE 3 cr.
Readings from principal authors of the 19th century will be used to analyze the various literary and social movements that characterized this period. Students will be expected to carry out a research project.

GER 3341 PROSEMINAR 3 cr.
Change topic. Prerequisite: GER 2202 or equivalent competency, GER 320 preferred.

GER 3360 SEMINAR: GERMAN CULTURAL HISTORY 3 cr.
Survey of the cultural development of the German-speaking areas from the tribal migration period through the recent reunification. Emphasis is on literary, architectural, musical, scientific, and artistic achievements of each period and how these interact. Students will prepare several brief presentations and an in-depth project.

GER 3361 SEMINAR: EIGHTEENTH CENTURY GERMAN LITERATURE 3 cr.
Literary and social periods of the 18th century and texts by representative authors will be stressed. Students will gain exposure to older literary styles and language usage. Each student will carry out a research project on one author or movement within the period.

GER 3362 SEMINAR: GERMAN LYRIC POETRY 3 cr.
A representative sample of lyric poetry from the earliest extant examples up to that of contemporary times. Students will be exposed to metrical analysis, poetic devices and forms, and terminology used in literary discussions of verse. Written project and smaller oral presentations required.

GER 3363 SEMINAR: THE GERMAN NOVELLE 3 cr.
This is a genre-study course that concentrates on the Novelle (longer short story or novelette) as it developed in the German-speaking countries. Authors studied are from the 19th and early 20th centuries, covering romanticism to realism.

GER 3364 SEMINAR: GERMAN DRAMA 3 cr.
Representative plays and theories of drama from each of the main literary movements will be studied in their social and artistic contexts. A research project will be required, part of which might be, depending upon wishes of the class, actual scenes for presentation to class or campus audience.

GER 3370 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
"Strongly recommended for all German majors - especially those in the BSE program or who plan to pursue graduate work, but open to students of any major who wish to live and study in Germany." The number of credits granted is based upon validated credentials presented to the department. Plans for foreign study should be submitted at least one semester prior to departure. Regulations regarding study abroad are available in the Office of the Provost/Vice President for Academic Affairs.

GER 3371-3380 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
See GER 3370 for course description.

GER 4400 SENIOR SEMINAR 3 cr.
Possible topics: works of one specific author (e.g., Boll, Brecht, Heine, Durrenmatt, Goethe, Schiller, Grass); children's literature and fairy tales; literature of the former East Germany; introduction to Middle High German; history of the German language; introduction to comparative Germanic philology. Other topics possible if prearranged with instructor.

GER 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

HEALTH AND PHYSICAL EDUCATION

HPE 1100 HEALTH (PERSONAL AND COMMUNITY) 2 cr.
Includes health services, health instruction, and health environment dealing with contemporary principles, practices, and concepts serving personal, family, and community health.

HPE 1101-1165: 1 cr.
Serves the individual with little or no experience in the activity selected. Emphasis on beginner-level fundamental skills in lifetime fitness, leisure, and recreational activities.

HPE 1101 BEGINNING SWIMMING 1 cr.

HPE 1102 BEGINNING BOWLING 1 cr.

HPE 1103 BEGINNING TENNIS 1 cr.

HPE 1104 BEGINNING BADMINTON AND TENNIS 1 cr.

HPE 1105 BEGINNING BADMINTON AND GOLF 1 cr.

HPE 1106 BEGINNING ARCHERY 1 cr.

HPE 1107 BEGINNING BILLIARDS 1 cr.

HPE 1108 BEGINNING RACQUETS 1 cr.

HPE 1109 BEGINNING SKIING 1 cr.

HPE 1110 BEGINNING GOLF 1 cr.

HPE 1114 ARCHERY AND VOLLEYBALL 1 cr.

HPE 1115 CONDITION AND BODY AWARENESS 1 cr.

HPE 1116 BASKETBALL AND SOCCER 1 cr.

HPE 1117 BADMINTON AND RACQUETBALL 1 cr.

HPE 1118 RACQUETBALL 1 cr.

HPE 1119 AEROBIC AQUATICS 1 cr.

HPE 1120 TENNIS AND BADMINTON 1 cr.

HPE 1122 CONDITION AND WEIGHT TRAINING 1 cr.

HPE 1123 BADMINTON AND VOLLEYBALL 1 cr.

HPE 1125 FIELD HOCKEY AND RACQUETBALL 1 cr.

HPE 1127 BEGINNING GOLF VOLLEYBALL 1 cr.

HPE 1128 AEROBIC CONDITIONING 1 cr.

HPE 1129 ARCHERY 1 cr.

HPE 1130 GOLF 1 cr.

HPE 1131 WALK LIFE FITNESS 1 cr.

HPE 1132 HYDRO AEROBICS 1 cr.

HPE 1134 BILLIARDS 1 cr.

HPE 1135 RACQUETBALL AND TENNIS 1 cr.

HPE 1136 RECREATIONAL SWIMMING ACTIVITIES 1 cr.

HPE 1137 TENNIS AND VOLLEYBALL 1 cr.

HPE 1138 TENNIS 1 cr.

HPE 1139 SOFTBALL AND VOLLEYBALL 1 cr.

HPE 1140 RACQUETS 1 cr.

HPE 1141 BADMINTON AND RACQUETBALL 1 cr.

HPE 1142 BADMINTON AND TENNIS 1 cr.

HPE 1143 INTERMEDIATE SWIMMING 1 cr.

HPE 1144 INTERMEDIATE SKIING 1 cr.

HPE 1145 INTERMEDIATE TENNIS AND VOLLEYBALL 1 cr.

HPE 1146 INTERMEDIATE BOWLING 1 cr.

HPE 1148 ADVANCED SWIMMING 1 cr.

HPE 1149 LIFEGUARD TRAINING 1 cr.
Designed to provide necessary minimum skills for a person to serve as a non-surf lifeguard. Reaching, throwing, wading and swimming rescue techniques. American Red Cross certification upon successful completion. Prerequisite: current Standard First Aid and Adult CPR certification.

HPE 1151 ADVANCED BADMINTON 1 cr.
Serves the individual with little or no experience in the activity selected. Emphasis on beginner-level fundamental skills in seasonal activities for individual, dual, and team sports.

HPE 1160 LIFEGUARD INSTRUCTOR 1 cr.
Students currently certified as lifeguards will develop skills to teach lifeguard training and CPR for the professional rescuer. Prerequisites: Current Lifeguard and CPR Professional Rescue Certification or HPE 1149.

HPE 1164 AEROBIC CONDITIONING AND CPR 1 cr.
Foundations, design, and evaluation of individualized aerobic conditioning programs with a variety of activities and American Red Cross Community CPR.

HPE 1165 HIKING 1 cr.
Designed to cover the broad scope of activities concerned with hiking, compass use and orienting. Emphasis will be placed upon safety, equipment, and traversing various trails in Tioga County. Participation in weekend sessions is required.

HPE 1168 BLS FOR HLTH CARE PROVIDERS 1 cr.
This course is designed to teach the skills of CPR for victims of all ages (including ventilation with a barrier device, bag-mask device, and oxygen), use of automated external defibrillator (AED), and relief of foreign-body airway obstruction (FBAO), as prescribed by the American Heart Association and the American Red Cross. It is intended for students who, by nature of their professions, provide heath care to patients and victims in a wide variety of situations, including in-hospital and out-of-hospital settings The course is also designed for anyone required to take a healthcare/professional rescuer course for future employment. This course is a prerequisite for those seeking future certification in ACLS and PALS.

HPE 2225 WATER SAFETY INSTRUCTION 2 cr.
Provides students with the practical experience and knowledge needed to teach swimming beginning at the non-swimmer level up to advanced senior life saving. Prerequisite: completion of advanced life saving.

HPE 3300 TECHNIQUES OF COACHING TRACK AND FIELD 3 cr.
Participation in actual training techniques in track and field. Planning and organizing equipment for a track program will be studied.

HPE 3305 COACHING AND OFFICIATING WRESTLING 3 cr.
Practical training in wrestling fundamentals, strategy and the psychology of coaching, fundamentals of officiating, rule interpretation and preparation.

HPE 3310 SPECIAL PHYSICAL EDUCATION FOR THE EXCEPTIONAL CHILD 3 cr.
A comprehensive analysis of the physically, emotionally, and socially handicapped student. Includes selected activities and achievement standards in the field of health, physical education, and athletics.

HPE 3315 ATHLETIC TRAINING 3 cr.
Designed to provide experience in the application of various methods of treatment to athletic injuries. A study of preventive measures and medical management of athletic injuries.

HPE 3320 BASIC FOOTBALL 3 cr.
Examines the methods, techniques, and psychology used in coaching football. Provide the prospective coach with knowledge of the personal problems in motivating and handling individual players.

HPE 3330 COACHING BASKETBALL 3 cr.
Practical training in the areas of basketball fundamentals, individual and team play, strategy, and the psychology of coaching.

HPE 3340 FIRST AID AND CPR (STANDARD AND ADVANCED) 3 cr.
Theory and application of the methods, techniques, and psychology used in first aid and safety. Students will receive certification by the American Heart Association in Adult and Pediatric CPR, Adult AED, and First Aid.

HPE 3341 ADVANCED FIRST AID AND CPR RECERTIFICATION 3 cr.
To provide advanced skills and knowledge when responding to first aid situations: to certify instructors where there is a need for basic first aid, multi-media first aid, and standard first aid and personal safety; to recertify current first aiders.

HPE 3350 METHODS I, TEACHING HEALTH AND PHYSICAL EDUCATION IN ELEMENTARY SCHOOL 2 cr.
Principles, problems, materials, and techniques for conducting the health and physical education programs in the elementary schools.

HPE 3360 KINESIOLOGY 3 cr.
Analysis of human motion based on anatomical and mechanical principles. Applications of mechanics to sports activity. Prerequisite: BSC 1121

HPE 3370 PHYSIOLOGY OF EXERCISE 3 cr.
Critical analysis of physiological bases of muscular activity with special attention to general effects of exercise on body function. Prerequisite: BSC 1122 and HPE 3360.

HPE 3375 ADVANCED ATHLETIC TRAINING 3 cr.
An in-depth study of detailed orthopedic evaluation of injuries to athletes. Rehabilitation of specific major joints from post-op to competition will be studies. Prerequisite: HPE 2206, 2207 and 3315.

HPE 3376 ATHLETIC TRAINING LAB III 1 cr.
Examines the therapeutic modalities commonly used in the field of athletic training. Students in the area of concentration will be required to perform clinical work under the direct supervision of a licensed NATA certified athletic trainer.

HPE 3377 ATHLETIC TRAINING LAB IV 1 cr.
The use and misuse of prescription and non-prescription medication in athletics today. The student will be required to perform clinical work under the direct supervision of a licensed NATA certified athletic trainer. Prerequisite: HPE 3376

HPE 3390 COACHING BASEBALL 3 cr.
Provides the knowledge, skills, and attitudes to prepare students to coach high school baseball programs dealing with organizational factors of coaching as well as the strategies and skills of the game.

HPE 4420 HUMAN BEHAVIOR IN COACHING 3 cr.
Designed for the experienced coach as well as the future coach to acquire a better understanding of the most important and least understood aspect of athletics. Includes appropriate techniques to teach athletics to consciously affect motivational processes.

HPE 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

HISTORY

***HST 1111 WORLD CIVILIZATION TO 1350 3 cr.**
A survey of significant ideas, events, and cultural developments from the emergence of ancient Civilizations to 1350.

***HST 1112 WORLD CIVILIZATION 1350-1900 3 cr.**
A continuation of HST 1111, beginning with the Renaissance to the close of the nineteenth century, including the political, economic, and social developments that affected the world.

***HST 1113 WORLD HISTORY SINCE 1900 3 cr.**
A survey of the cultural, political, economic, and social forces that have shaped world history since 1900, with particular emphasis on global historical trends.

***HST 2201 UNITED STATES HISTORY TO 1877 3 cr.**
A survey of American history covering pre-European contact through colonization, independence, and the formation of the new republic; nationalism, sectionalism, and the growth of democracy in the 19th century; and the Civil War and Reconstruction.

***HST 2202 UNITED STATES HISTORY SINCE 1877 3 cr.**
A continuation of 2201, covering significant trends and events in the rise of modern industrial America, its emergence as a world power and events into the 21st century.

***HST 2210 AMERICAN WOMEN'S HISTORY 3 cr.**
Explores the cultural, social, racial, and political forces that have shaped the experiences of women throughout American history.

***HST 2220 WORLD WAR II 3 cr.**
The origin, background, and course of World War II and its effects upon world affairs. Deals with battles and the scientific, psychological, political, and economic impact of the war.

***HST 2226 FILM AS HISTORY 3 cr.**
Explores how the cinema, the 20th century's most important mass medium, has portrayed and presented history on the screen. We view various feature films with historical topics and then analyze how these films present history to their audiences. We look into not only questions of visual representation, but also the problem of factual accuracy.

***HST 3265 HISTORY OF SPORTS IN AMERICAN SOCIETY 3 cr.**
Topics include: evolution of major sports, influence of organization and technology, critics of sports, racism, role of women and labor relations within sports, sports in the school, various sports heroes, and sports and culture.

HST 3290 HISTORICAL METHODS 3 cr.
Introduces the student to the discipline, methods, and techniques of historical research and writing. Examines the major interpretations of history.

***HST 3294 TOPICS IN AMERICAN HISTORY 3 cr.**
A special area of American history that is of current interest.

***HST 3295 TOPICS IN GLOBAL HISTORY 3 cr.**
A special area of world history that is of current interest.

***HST 3296 TOPICS IN EUROPEAN HISTORY 3 cr.**
A special area that is of current interest in European history.

HST 3303 EARLY AMERICAN HISTORY TO 1800 3 cr.
A study of the exploration and settlement of North America with emphasis on English colonies through independence and the early years of the new nation. Particular emphasis on political, social, and economic developments.

HST 3304 HISTORY OF THE CIVIL WAR AND RECONSTRUCTION 3 cr.
Sectional controversy; constitutional issues, secession and military conflict; the aftermath of the war, North and South, with emphasis on political development during reconstruction ending. Prerequisite: one history course or permission of instructor.

HST 3307 CONTEMPORARY AMERICA 3 cr.
Explores the social, cultural, and economic changes of America since World War II. Examines the rise of suburbia, civil rights, counterculture, and development of the post-industrial economy. Prerequisite: One history course or permission of instructor.

HST 3308 RISE OF INDUSTRIAL AMERICA, 1877-1945 3 cr.
Study of the growth of big businesses and influential figures of corporate America. Also addresses the political and social implications on American society. Prerequisite: One history course or approval of instructor.

HST 3310 AFRO-AMERICAN EXPERIENCE 3 cr.
African heritage, Atlantic slave trade, American slavery, Civil War and Reconstruction, segregation and disfranchisement, the Harlem Renaissance, and Black Revolution, black resistance, and the quest for a black identity. Prerequisite: one history course of permission of instructor.

HST 3313 WOMEN IN EUROPEAN HISTORY 3 cr.
Explores the experiences of women in Europe from the fall of Rome to the present. Particular emphasis is placed on the changing legal and social status of women throughout the period.

HST 3315 (SWK) HISTORY OF SOCIAL WELFARE IN AMERICA 3 cr.
Analyzes the history and evolution of social welfare services, the history of social work and major policies that form the foundation of social welfare. Includes the impact of social welfare on populations at risk and examines factors that contribute to and constitute being at risk. Provides knowledge of distributive justice, human and civil rights, and the global interconnections of oppression.

HST (ED) 3316 TEACHING CITIZENSHIP EDUCATION 3 cr.
This course provides a thorough background in the methods and materials for the teaching of citizenship education. Emphasis is placed on self-directed inquiry that focuses on identifying issues, problems, and contexts and on methods to incorporate this knowledge and these skills into classroom instruction. Students will have an opportunity to plan and implement practice strategies in the classroom. Prerequisite: ED 1102.

HST 3320 HISTORY OF AMERICAN TECHNOLOGY AND ENVIRONMENT 3 cr.
Study of the American landscape and its inhabitants. Role of technology in American society and its impact on the environment. Environmental thought and issues on the changing landscape. Implications of population growth, technology, industries, and development on the American economy and society. Prerequisite: One history course or approval of instructor.

HST 3330 ROME: FROM REPUBLIC TO EMPIRE 3 cr.
Traces the history of Rome from the founding of the Roman Republic in the 5th century B.C. to the fall of the Western Roman Empire in 476 A.D. Particular emphasis is placed on cultural and political trends during the late Republic and early Empire. Prerequisite: one history course or permission of instructor.

HST 3333 HISTORY OF RELIGIONS IN NORTH AMERICA 3 cr.
Surveys the impact of the development of religious movements, institutions, ideas, practices and values on US and Canadian cultures, politics and society.

HST 3345 MIDDLE AGES: LIFE AND STYLE 3 cr.
The political, socioeconomic, and cultural development of the civilization of Medieval Europe from the fall of Rome to the Medieval synthesis in the High Middle Ages. Prerequisite: one history course or permission of instructor.

HST 3350 INTRODUCTION TO PUBLIC HISTORY 3 cr.
An introduction to selected areas of the public history field for those students who would like to know more about career and employment opportunities outside of teaching. Topics include museums, archives, historic site interpretation, historic preservation, and historical societies.

HST (PSC) 3366 TWENTIETH CENTURY EUROPE 3 cr.
A study of the political, economic, cultural, and international developments in Europe during the twentieth century. Particular attention is given to the two World Wars and their causes, the rise of mass culture, the cold ware, and the revolutions of 1989. Prerequisite: One history course or permission of instructor.

HST (PSC) 3377 HISTORY OF LATIN AMERICA 3 cr.
A survey of Mexico, Central America, South America, and the Caribbean from Pre-Columbian Indian Civilizations to the 20th century. Emphasis is placed on the factors that have affected the region's social, economic, and political development..

HST 3387 HISTORY OF EAST ASIA 3 cr.
Traditional cultures and institutions of China and Japan and their roles in Korea and Southeast Asia; the role of Western powers in China's development; post-war changes; United States foreign policy in relation to the Far East; and the emergence of Communist China and Modern Japan are discussed. Prerequisite: one history course or permission of instructor.

HST 3388 HISTORY OF AFRICA 3 cr.
Surveys the history of Africa from Paleolithic times to the presents, with particular emphasis on broad regional trends and the formation of African states after 1800. No prerequisites.

***HST 4401 HISTORY OF PENNSYLVANIA 3 cr.**
The founding and development of Pennsylvania, emphasizing the social, political, and economic characteristics of the Commonwealth; the diversity of its people.

HST 4406 THE WESTWARD MOVEMENT IN AMERICA 3 cr.
Settlement of the geographic areas and the influence of westward expansions on the political, social and economic development of the American people. Includes the trans-Mississippi West and role of the Plains Indian in American history. Prerequisite: one history course or permission of instructor.

HST 4415 MODERN AMERICAN DIPLOMACY 3 cr.
Explores American diplomacy from the Spanish American War through recent events. Included are the techniques, purposes, and problems of diplomacy. Prerequisite: HST 2202 or permission of instructor.

HST 4420 NAZI GERMANY AND THE HOLOCAUST 3 cr.
Explores the political, cultural, economic, and social history of National Socialism, from Hitler's rise to political prominence in the 1920s to the demise of the Third Reich in May, 1945. Particular attention is paid to the genesis of the Nazi Holocaust and its historical repercussions. Prerequisite: One history course or consent of the instructor.

HST 4431 HISTORY OF CONSUMER CULTURE IN AMERICA 3 cr.
Rise of contemporary consumption and its impact on American society since late 19th century. Historiography of consumer thought, materialism, and social excesses.

HST 4450 INTERNSHIP 3 - 12 cr.
Provides pre-professional skills. Museum and archival work are examples of areas in which students can bring together academic training and practical experience. Prerequisite: permission of department chairperson, sponsoring instructor, and an agency. May be taken for 3 through 12 credits.

HST 4452 SOUTH AFRICA: FROM CAPE COLONY TO APARTHEID 3 cr.
Explores the history of South Africa, from its founding as a Dutch Colony in 1652 to the collapse of the Apartheid system in the 1990s and the election of Nelson Mandela as president of a multiethnic nation. Particular emphasis is placed on the history of racial segregation and the development of Apartheid. Prerequisite: One history course.

HST 4471 HISTORY OF MEXICO AND THE CARIBBEAN 3 cr.
A survey of Mexico and the Caribbean basin from the rise of native civilizations to the revolutions of the 20th century and their aftermath. Studies the interaction of various racial groups, the formation of distinct national identities, and class conflict.

HST 4487 PACIFIC RIM: HISTORY AND THE CONTEMPORARY WORLD 3 cr.
Study of the cultures and traditions of China, Japan, Korea, and Southeast Asian countries with special focus on the Newly Industrialized Countries and their participation in the global economy.

HST 4496 SEMINARS ON SELECTED TOPICS 3 cr.
In-depth knowledge of historical methodology and research. Significant historical problems are selected for oral discussion. Prerequisite: one history course or permission of instructor.

HST 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 - 3 credits at one time.

HONORS

HON 1111 HUMANITIES HONORS I 3 cr.
Introduction to the humanities by means of an interdisciplinary content drawn from literature, philosophy, theater, music, art and history.

HON 1112 HUMANITIES HONORS II 3 cr.
Continuation of HON 1111. HON 1112 may be taken prior to HON 1111 if necessary.

HON 1107 MACRO PHYSICAL SCIENCE 3 cr.
An introduction to motion and energy, astronomy thermodynamics, and sound. Students will construct laboratory apparatus from readily available sources to make measurements. Regularly cross-listed with SCI 1107, Offered in Fall semester.

HON 1108 MICROPHYSICAL SCIENCE 3 cr.
An introduction to the atom, chemistry, electricity and magnetism, and light. Students will construct laboratory apparatus from readily available sources to make physical measurements. Regularly cross-listed with SCI 1108. Offered in Spring semester. Honors Students take only one Honors science course, either HON 1107 or HON 1108.

HON 2200 RESEARCHING CONTEMPORARY ISSUES 3 cr.
This course focuses on a series of case studies drawn from recent events of local, national and international importance with an emphasis on interdisciplinary research methods.

HON 3301 FIELD WORK IN THE NATURAL AND SOCIAL SCIENCES 3 cr.
students work individually and collaboratively on field-based research projects in the natural or social sciences. Prerequisites: HON 1111, HON 1112, and HON 2200, or permission of the instructor.

HON 4497 SENIOR RESEARCH PRESENTATION 3 cr.
A semester-long project, related to the students major, that involves the perspective of at least two academic disciplines. The project is supervised by a faculty member of the students choosing and approved by the Honors Program Director. A formal presentation before the campus community concludes the Honors Program.

JOURNALISM

JN 1100 JOURNALISM 3 cr.
Introduces the nature and practice of newsgathering, reporting, writing, editing, and professionalism. Students acquire basic skills by covering textbook examples and off-campus breaking stories.

JN 2200 CRISIS NEWS ANALYSIS 3 cr.
Critically examines roles, functions, and performance of the media during crises. Addresses the nature of crisis reporting of war, disaster, and the global environment. Prerequisite: JN 1100 or instructor permission.

JN 2210 MEDIA DESIGN 3 cr.
Presents communication/design concepts, applications and production methods, including computer desktop publishing. Lessons focus on design principles, typography, printing processes, copywriting, budget/production planning, and mechanical production for various printed materials.

JN 3310 SPECIALIZED NEWS AND FEATURE WRITING 3 cr.
Develops the journalism craft beyond routine coverage practices. Field assignments and classroom workshops offer practical experience in non-fiction depth/feature writing styles, interviewing techniques, and story marketing. Prerequisite: JN 1100.

JN 3320 MAGAZINE WRITING AND PRODUCTION 3 cr.
Explores advanced non-fiction feature article writing and literary journalism, with an emphasis on magazine writing, design, and production. Students create the annual edition of Crossroads magazine published in May since 1990. Prerequisite: JN 1100, JN 3310, or instructor permission.

JN 3330 CONTEMPORARY ISSUES IN JOURNALISM 3 cr.
Engages students in issues, problems, and criticism concerning the mass media. Material covers media ethics; First Amendment and libel concerns; group media ownership; and public perception of the media. Prerequisite: JN 1100 or professor permission.

JN 4495 INTERNSHIP 1 - 12 cr.
An "internship" or work with local newspaper. Practice working on a publication, with attention given to the student's journalistic interest (news reporting, photography, editing) and the major aspects of production. May be taken for 1 through 12 credits. Prerequisite: JN 1100.

MATHEMATICS

MA 0090 BASIC ALGEBRA 3 cr.
Introduction to basic algebra. Topics include real numbers, linear equations, formulas, exponents, polynomials, factoring, rational expressions and equations, graphing, systems of equations, radicals, word problems, and applications. DOES NOT COUNT TOWARD GENERAL EDUCATION OR TOTAL CREDITS NEEDED FOR GRADUATION.

MA 1115 SURVEY OF MATHEMATICAL IDEAS 3 cr.
A liberal arts course designed to acquaint the student with the nature and scope of modern mathematics. Emphasis is on concepts and understanding rather than the acquisition of technique. Topics included are suitable for the non-science liberal arts student. No extensive background in algebra is required.

MA 1117 MATHEMATICS AND CULTURE 3 cr.
An investigation of the origins, nature, and purposes of mathematics and its importance in the larger culture. Working within the historical framework, the student is introduced to significant mathematical concepts including the axiomatic method, symbolic logic, and the structure of number systems and their relations to one another. The motivation for, development of, and basic procedures of various branches of mathematics (including trigonometry, analytic geometry, calculus, probability and statistics, and Euclidean and non-Euclidean geometry) are investigated. In the process, students will frequently be involved in discussions of the closely related fields of history, science, and philosophy.

MA 1119 FUNDAMENTALS OF MATHEMATICAL REASONING 3 cr.
This course will center on quantitative reasoning skills. Areas of focus include deductive and inductive reasoning, critical thinking, numerical and geometrical reasoning, developing number sense, decision making under uncertainty, and mathematical communication skills. These skills will be presented and developed within the context of classical and everyday mathematical applications.

MA 1125 INTRODUCTORY STATISTICS I 3 cr.
A survey of basic statistical methods for analyzing data. Topics include descriptive statistics, probability, sampling, point and interval estimation, hypothesis tests, linear regression, correlation, and non-parametric tests.

MA 1126 INTRODUCTORY STATISTICS II 3 cr.
This course will explore interesting data intensive applications through statistical computerized analysis. The course will apply concepts studied in MA 1125, introduction to statistics, and use computer software to conduct data manipulation and analysis. Prerequisites: MA 1125 or 3314.

MA 1128 COLLEGE ALGEBRA 3 cr.
Review of ideas in basic algebra, graphs, equations, inequalities, and a strong emphasis on functions (general, polynomial, rational, exponential and logarithmic).

MA 1129 FINITE MATHEMATICS 3 cr.
An initial treatment of those topics in basic mathematics that are of special importance in business and the social sciences. Topics included are logic, sets and counting techniques, probability, mathematical models, linear equations and inequalities, introduction of linear programming, and matrices, also Markov Chains and Game Theory.

MA 1165 PRE-CALCULUS MATHEMATICS 3 cr.
Intended to prepare students for the study of calculus. Topics include functions, graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions and analytic trigonometry. Prerequisite: MA 1128 or equivalent.

MA 1170 FUNDAMENTAL CONCEPTS OF CALCULUS 3 cr.
The fundamental concepts of calculus is for non-physical science majors utilizing the basic techniques of differential and integral calculus. Not available to students who have completed MA 2231. Prerequisite: MA 1128 or equivalent.

MA 2203 TOPICS IN ALGEBRA AND GEOMETRY 3 cr.
A study of the basic ideas and structure in modern arithmetic, algebra, and geometry.

MA 2231 CALCULUS I 4 cr.
The purpose of this course is to develop a good understanding of limit, continuity, the derivative and its uses (including modeling and solving problems), to introduce the definite integral, and to establish the important relationship between the derivative and the definite integral. In this context the course will examine different classes of functions numerically, symbolically, and graphically. This course is intended for mathematics, science, and engineering majors. (Addresses NCTM Standards 1.5.8 and 1.5.10 for Mathematics Education majors.) Prerequisite: High school algebra and trigonometry or MA 1165.

MA 2232 CALCULUS II 4 cr.
This is a continuation of MA 2231 and is intended to develop a good understanding of the definite integral and its uses including calculating area and applying numerical computation and estimation techniques, and to develop basic integration techniques. Differential equations, Taylor polynomials, series, exponential functions, logarithmic functions, and polar coordinates, and analytic geometry are also covered. (Addresses NCTM Standards 1.5.2, 1.5.3, 1.5.8, and 1.5.10 for Mathematics Education majors.) Prerequisite: MA 2231 or equivalent.

MA 2233 CALCULUS III 4 cr.
This is a continuation of MA 2232, and the purpose of this course is to investigate functions of two or more variables. Topics include graphing functions of two or more variables, partial derivatives, vectors, optimization, double and triple integrals, line and surface integrals, and calculating volumes. (Addresses NCTM Standards 1.5.3 and 1.5.10 for Mathematics Education majors.) Prerequisite: MA 2232 or equivalent.

MA 3260 DISCRETE STRUCTURES 3 cr.
Foundations of mathematics emphasizing fundamental concepts in abstract mathematics and deductive reasoning. Topics include logic, mathematical induction, graph theory, recurrence relations, difference equations, Boolean algebra, sets, functions, relations, cardinality, number systems, and algorithms. (Addresses NCTM Standard 1.5.11 for Mathematics Education majors.)

MA 3280 LINEAR ALGEBRA AND MATRIX THEORY 3 cr.
A study of the geometry of vectors, matrix algebra and operations, solutions of general systems of linear equations, inversion of matrices, determinants, vectors and vector spaces, subspaces, linear independence, bases and dimension, linear transformations, eigenvalues and eigenvectors, and applications. (Addresses NCTM Standards 1.5.11 and 1.5.13 for Mathematics Education majors.) Prerequisite: MA 2232.

MA 3301 SURVEY OF MATHEMATICAL MODELS 3 cr.
A survey of different math models, some deterministic and some stochastic, requiring no calculus background, designed to show non-trivial applications. Computer use is emphasized. Prerequisite: MA 1125 or 1129.

MA 3304 HISTORY AND PHILOSOPHY OF MATHEMATICS 3 cr.
A study of the chronological development of facets of mathematics that have contemporary importance. The historical and philosophical background of each facet is integrated with experience in mathematical study and application. Emphasis is placed on great contributors of mathematics, their contributions, and their methods of reasoning including the contributions of underrepresented groups and diverse cultures. Concepts of number, number systems, and the nature of axiomatic reasoning are also covered. (Addresses NCTM Standards 1.5.1, 1.5.4, and 1.6 for Mathematics Education majors.) Prerequisite: MA 3260.

MA 3308 OPERATIONS RESEARCH 3 cr.
Examines the development and use of the techniques of research. Topics include linear programming, queuing theory, probabilistic inventory models, and simulation. Prerequisite: MA 1125, 2232, 3260, 3280, or 3314.

MA 3310 NUMERICAL ANALYSIS 3 cr.
A study of numerical methods for the solution of algebraic, transcendental, and differential equations, numerical integration and differentiation, and error analysis. Prerequisite: MA 2232.

MA 3311 DIFFERENTIAL EQUATIONS I 3 cr.
Techniques for solving ordinary differential equations, superposition principle, existence and uniqueness theorem, applications. Prerequisite: MA 2232 (may be taken concurrently).

MA 3312 DIFFERENTIAL EQUATIONS II 3 cr.
Additional work in partial differential equations and boundary value problems, numerical methods, qualitative treatment of differential equation in phase plane, stability issues. Prerequisite: MA 3311 and MA 2233 (may be taken concurrently).

MA 3314 APPLIED PROBABILITY AND STATISTICS 3 cr.
An introduction to applications of descriptive, inferential statistics, and probability. Descriptive statistics including frequency distributions, measures of location and variation; axioms of probability, probability (both theoretical and simulated), permutations, combinations, random variables, expected value, and decision making; probability distributions (both discrete and continuous), distribution functions, sampling and sampling distributions; statistical inferences concerning means, standard deviations, and proportions; analysis of variance, non-parametric methods, regression, correlation, planning surveys and experiments. (Addresses NCTM Standards 1.5.6, 1.5.7, and 1.5.11 for Mathematics Education majors.) Prerequisite: MA 1170 or 2232.

MA 3315 APPLIED REGRESSION ANALYSIS 3 cr.
Simple and multiple regression will be used to analyze data. Residual analysis, indicator variables, and step-wise and polynomial regression. Computer software will be used to analyze data. Prerequisite: MA 1125 or 3314.

MA 3324 APPLIED MATHEMATICS 3 cr.
Illustrates the principles and basic styles of thought in solving physical problems by mathematical methods. Particle dynamics, heat and fluid flow, wave equations, vector, Fourier and tensor analysis. Prerequisites: MA 2232 and MA 3280.

MA 3326 ANALYSIS OF VARIANCE AND DESIGN OF EXPERIMENTS 3 cr.
One-way and two-way analysis of variance will be studied in depth. The design part of the course will include randomized block designs, nested designs, repeated measure designs, and factorial designs. Computer software will be used to analyze data. Prerequisites: MA 1126, MA 3314 and MA 3315.

MA 3327 STATISTICAL PROCESS QUALITY CONTROL 3 cr.
The course will incorporate a variety of data analysis techniques particularly useful in understanding principles and practices of statistical process quality control. Case studies will exemplify process situations for analysis. Topics include data organization and presentation, statistical concepts relating to processes, analysis of measurement and attribute data, measures of chart performance, tolerances, specifications, process capability studies, and short-run control charts. Prerequisites: MA 1126, MA 3314, MA 3315 and MA 3326.

MA 3329 MODERN GEOMETRY I 3 cr.
An introduction to the foundations of geometry, including non-Euclidean geometries, with emphasis on the axiomatic development of the Euclidean system and proof. Use of geometric concepts and relationships to describe and model mathematical ideas and real-world constructs including fundamental ideas of measurement, spatial visualization, transformations, coordinates, vectors, and a geometric perspective of trigonometry. A computer geometry program will be used. (Addresses NCTM Standards 1.5.4, 1.5.5, and 1.5.9 for Mathematics Education majors.) Prerequisite: MA 3260.

MA 3330 MODERN GEOMETRY II 3 cr.
The foundations of geometry with emphasis on non-Euclidean axiomatic structures. Prerequisite: MA 3329 or permission of instructor.

MA 3332 APPLIED COMBINATORICS 3 cr.
Applied discrete mathematics emphasizing combinatorics and graph theory. Topics will be chosen from counting methods, generating functions, recurrence relations, inclusion-exclusion, the polya enumeration formula, graph theory, covering circuits, trees, and searching and network algorithms. Prerequisite: MA 2231.

MA 3335 NUMBER THEORY 3 cr.
An analytical study of basic concepts including divisibility, congruence, quadratic reciprocity and Diophantine equations. Varied methods are stressed. Prerequisites: MA 2232 and MA 3260.

MA 3345 REAL ANALYSIS I 3 cr.
The real number system. Emphasis on the concepts and theoretical approach to calculus: functions, sequences, series, limits, continuity, derivatives, the Riemann integrals, and sequences of functions. Prerequisites: MA 2233 and MA 3260.

MA 3346 REAL ANALYSIS II 3 cr.
A continuation of 3345. Prerequisite : MA 3345

MA 3348 COMPLEX VARIABLES 3 cr.
A first course in complex variables. Complex numbers, analytic functions, elementary functions, mappings by elementary functions, integrals, power series, residues, poles, and conformal mappings. Prerequisite: MA 2233.

MA 3361 MODERN ALGEBRA I 3 cr.
A study of sets, rings, integral domains, fields, groups, polynomials, congruences, algebra of classes, mappings, homomorphisms, isomorphisms, and relationships to numbers systems with an emphasis on proof. (Addresses NCTM Standards 1.5.9 and 1.5.14 for Mathematics Education majors.) Prerequisite: MA 3260 or permission of instructor.

MA 3362 MODERN ALGEBRA II 3 cr.
A continuation of 3361 consisting of a more detailed study of groups, rings, ideals, fields, and selected topics. Prerequisite: MA 3361.

MA 3371 MATHEMATICAL STATISTICS I 3 cr.
Distributions of discrete and continuous random variables, expected values and moments, conditional probability and independence, special discrete and continuous distributions. Prerequisite: MA 2233.

MA 3372 MATHEMATICAL STATISTICS II 3 cr.
Interval estimation, order statistics, point estimation, tests of hypotheses. Prerequisite: MA 3371.

MA 3381 TOPOLOGY 3 cr.
Introduction to point-set topology. Set theory, metric spaces, topological spaces, connectedness, and compactness. Prerequisites: MA 2232 and MA 3260.

MA 4401 SELECTED TOPICS 3 cr.
Selections from topology, algebra, real analysis, matrix theory, computer science or other junior or senior level topics. Active participation by the student is required. Prerequisite: permission of instructor.

MA 4402 SEMINAR 1 - 3 cr.
Papers from the American Mathematical Monthly, comparable journals, and various references will be presented and discussed by the students. Continuous reading and participation will be required. May be taken for a total of six credits. Prerequisite: Permission of instructor.

MA 4450 INTERNSHIP 3 - 12 cr.
Supervised and evaluated participation in the regular activities of a business, government, agency, or appropriate organization. In consultation with the supervising faculty member, the student is expected to prepare a comprehensive final report relating to the work accomplished during the internship. May be taken for three through twelve credits. No more than six credits count toward the major. Prerequisite: Recommendation by department faculty.

MA 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1- 3 credits at one time.

MUSIC - APPLIED

MAP 1101 VOICE CLASS I 1 cr.
Develops proper vocal production, poise, and confidence in solo singing. Remedial work for individual problems.

MAP 1102 VOICE CLASS II 1 cr.
Continuation of MAP 1101. Prerequisite: MAP 1101.

MAP 1103 ADVANCED VOICE CLASS 1 cr.
Instruction in voice will be given on a level beyond MAP 1101 and 1102. Goals of the course: to improve technique, quality, and artistry of individual voices; and to focus class attention on common vocal problems and their remediation.

MAP 1112 BEGINNING PIANO CLASS 1 cr.
Remedial piano study for those with no prior piano experience.

MAP 1113 CLASS PIANO I 1 cr.
For the student with limited piano skill. Prerequisite: ability to perform with reasonable fluency at least five pieces from the last pages of any standard first grade instruction book (such as Thompson, Schaum, Fletcher, Kasschau, et al.), and to play at sight pieces from the first half of a similar book.

MAP 1114 CLASS PIANO II 1 cr.
Designed for the music major who might reach the level of skill required by the first proficiency examination. May be taken for a total of three credits.

MAP 1115 ADVANCED PIANO CLASS 1 cr.
Designed for the music education vocal concentration major. Development of advancing piano skills to reach the level of the Third Proficiency. Prerequisite: Passing of the First Proficiency Examination or audition.

MAP 1131 WOODWIND CLASS I 1 cr.
Studies the fundamental principles and techniques necessary for playing and teaching the flute and clarinet; study of the literature appropriate for beginning class instruction.

MAP 1132 WOODWIND CLASS II 1 cr.
Studies the fundamental principles and techniques necessary for playing and teaching the saxophone, oboe, and bassoon; study of the literature appropriate for beginning class instruction.

MAP 1133 ADVANCED WOODWIND CLASS 1 cr.
Instruction in woodwind instruments on a level beyond that of the beginning courses. Introduces more scales, more advanced work with embouchure, tone, tonguing. Suitable literature for the various instruments.

MAP 1141 BRASS CLASS I 1 cr.
Studies the fundamental principles and techniques necessary for playing and teaching the trumpet and horn; study of the literature appropriate for beginning class instruction.

MAP 1142 BRASS CLASS II 1 cr.
Studies the fundamental principles and techniques necessary for playing and teaching the trombone, euphonium, and tuba; study of the literature appropriate for beginning class instruction.

MAP 1143 ADVANCED BRASS CLASS 1 cr.
Instruction in brass instruments on a level beyond that of the beginning courses. Scales in various articulations and ranges, more advanced technical work and styles, suitable literature for the various instruments.

MAP 1151 STRING CLASS I 1 cr.
Acquaints the non-string player with the basic elements of string instrument playing. Instruction in violin and viola, fundamentals of correct playing, and familiarity with problems of class instruction in typical elementary school string classes.

MAP 1152 STRING CLASS II 1 cr.
Continuation of 1151. Students specialize on cello, or bass. Presents keys up to four sharps and two flats with corresponding fingering problems. Introduces bass players to various positions, and cello players to extended second finger pattern. Introduces various staccato bowing patterns. Principles of vibrato presented.

MAP 1153 ADVANCED STRING CLASS 1 cr.
Instruction in stringed instruments on a level beyond that of the beginning courses. Introduces scales in various positions, more advanced work with the various staccato and spiccato bowings. Suitable literature for the various instruments.

MAP 1157 GUITAR CLASS I 1 cr.
Beginning study of the guitar. Functional use of the guitar in the music classroom. Accompanying singing.

MAP 1158 GUITAR CLASS II 1 cr.
Continuation of 1157. More advanced work in techniques and corresponding literature.

MAP 1161 PERCUSSION CLASS 1 cr.
Studies the characteristics for the various percussion instruments; performance techniques: development of performing ability necessary to teach the percussion instruments at the elementary and secondary level of instruction.

MAP 1163 ADVANCED PERCUSSION CLASS 1 cr.
Instruction in percussion instruments on a level beyond that of the beginning course. Introduces more advanced work with the various percussion instruments. Suitable literature for various instruments.

MAP 2200 VOICE SECONDARY 2 cr.
Voice secondary - one-half hour lesson

MAP 2210 PIANO SECONDARY 2 cr.
Piano secondary - one-half hour lesson

MAP 2220 ORGAN SECONDARY 2 cr.
Organ secondary - one-half hour lesson

MAP 2225 HARPSICHORD SECONDARY 2 cr.
Harpsichord secondary - one-half hour lesson

MAP 2230 FLUTE SECONDARY 2 cr.
Flute secondary - one-half hour lesson

MAP 2231 OBOE SECONDARY 2 cr.
Oboe secondary - one-half hour lesson

MAP 2232 CLARINET SECONDARY 2 cr.
Clarinet secondary - one-half hour lesson

MAP 2233 BASSOON SECONDARY 2 cr.
Bassoon secondary - one-half hour lesson.

MAP 2234 SAXOPHONE SECONDARY 2 cr.
Saxophone secondary - one-half hour lesson

MAP 2240 TRUMPET SECONDARY 2 cr.
Trumpet secondary - one-half hour lesson

MAP 2241 HORN SECONDARY 2 cr.
Horn secondary - one-half hour lesson

MAP 2242 TROMBONE SECONDARY 2 cr.
Trombone secondary - one-half hour lesson

MAP 2243 EUPHONIUM SECONDARY 2 cr.
Euphonium secondary - one-half hour lesson

MAP 2244 TUBA SECONDARY 2 cr.
Tuba secondary - one-half hour lesson

MAP 2250 VIOLIN SECONDARY 2 cr.
Violin secondary - one-half hour lesson

MAP 2251 VIOLA SECONDARY 2 cr.
Viola secondary - one-half hour lesson

MAP 2252 CELLO SECONDARY 2 cr.
Cello secondary - one-half hour lesson

MAP 2253 BASS SECONDARY 2 cr.
Bass secondary - one-half hour lesson

MAP 2254 HARP SECONDARY 2 cr.
Harp secondary - one-half hour lesson

MAP 2257 GUITAR SECONDARY 2 cr.
Guitar secondary - one-half hour lesson

MAP 3260 PERCUSSION SECONDARY 2 cr.
Percussion secondary - one-half hour lesson

MAP 3270 APPLIED MUSIC COMPOSITION 2 cr.
The study and application of composition techniques within the context of an individualized private lesson. New compositions will be developed and produced for public performance. Expertise in the composition of serious art music may be used in career musical capacities and in a graduate school of music. Prerequisite: Successful completion of Basic Music I-IV theory sequence and/or at the discretion of the instructor. May be repeated for a total of seven credits over multiple semesters.

MAP 3300 VOICE 1 - 2 cr.
Voice - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3310 PIANO 1- 2 cr.
Piano - One-half hour of lesson and fifty-minute group studio class per week.

MAP 3320 ORGAN 1- 2 cr.
Organ - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3325 HARPSICHORD 1 - 2 cr.
Harpsichord - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3330 FLUTE 1 - 2 cr.
Flute - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3331 OBOE 1- 2 cr.
Oboe - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3332 CLARINET 1- 2 cr.
Clarinet - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3333 BASSOON 1- 2 cr.
Bassoon - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3334 SAXOPHONE 1 - 2 cr.
Saxophone - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3340 TRUMPET 1 - 2 cr.
Trumpet - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3341 HORN 1- 2 cr.
Horn - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3342 TROMBONE 1 - 2 cr.
Trombone - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3343 EUPHONIUM 1- 2 cr.
Euphonium - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3344 TUBA 1- 2 cr.
Tuba - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3350 VIOLIN 1- 2 cr.
Violin - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3351 VIOLA 1- 2 cr.
Viola - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3352 CELLO 1- 2 cr.
Cello - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3353 BASS 1- 2 cr.
Bass - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3357 GUITAR 1- 2 cr.
Guitar - One-half hour lesson and one fifty-minute group studio class per week.

MAP 3360 PERCUSSION 1- 2 cr.
Percussion - One-half hour lesson and one fifty-minute group studio class per week.

MAP 4400 VOICE 3- 4 cr.
Voice - One-hour lesson and one fifty-minute group studio class per week.

MAP 4410 PIANO 3- 4 cr.
Piano- One-hour lesson and one fifty-minute group studio class per week.

MAP 4420 ORGAN 3- 4 cr.
Organ - 1 hour lesson and one fifty-minute group studio class per week.

MAP 4425 HARPSICHORD 3- 4 cr.
Harpsichord - One-hour lesson and one fifty-minute group studio class per week.

MAP 4430 FLUTE 3- 4 cr.
Flute - One-hour lesson and one fifty-minute group studio class per week.

MAP 4431 OBOE 3- 4 cr.
Oboe - One-hour lesson and one fifty-minute group studio class per week.

MAP 4432 CLARINET 3 - 4 cr.
Clarinet - One-hour lesson and one fifty-minute group studio class per week.

MAP 4433 BASSOON 3 - 4 cr.
Bassoon - One-hour lesson and one fifty-minute group studio class per week.

MAP 4434 SAXOPHONE 3 - 4 cr.
Saxophone - One-hour lesson and one fifty-minute group studio class per week.

MAP 4440 TRUMPET 3 - 4 cr.
Trumpet - One-hour lesson and one fifty-minute group studio class per week.

MAP 4441 HORN 3 - 4 cr.
Horn - One-hour lesson and one fifty-minute group studio class per week.

MAP 4442 TROMBONE 3 - 4 cr.
Trombone - One-hour lesson and one fifty-minute group studio class per week.

MAP 4443 EUPHONIUM 3 - 4 cr.
Euphonium - One-hour lesson and one fifty-minute group studio class per week.

MAP 4444 TUBA 3 - 4 cr.
Tuba - One-hour lesson and one fifty-minute group studio classes per week.

MAP 4450 VIOLIN 3 - 4 cr.
Violin - One-hour lesson and one fifty-minute group studio class per week.

MAP 4451 VIOLA 3 - 4 cr.
Viola - One-hour lesson and one fifty-minute group studio class per week.

MAP 4452 CELLO 3 - 4 cr.
Cello - One-hour lesson and one fifty-minute group studio class per week

MAP 4453 BASS 3 - 4 cr.
Bass - One-hour lesson and one fifty-minute group studio class per week.

MAP 4457 GUITAR 3 - 4 cr.
Guitar - One-hour lesson and one fifty-minute group studio class per week.

MAP 4460 PERCUSSION 3 - 4 cr.
Percussion - One-hour lesson and one fifty-minute group studio class per week.

MAP 4470 RECITAL 2 - 4 cr.
A formal public recital given in the major performing medium represents the culmination of study in the applied area.

MUSIC - ENSEMBLE

MEN 0000 RECITAL ATTENDANCE 0 cr.
Recital attendance is designed to 1) place students in formal concerts for their peers on Thursdays, 2) have students hear professional performances during the semester, and 3) meet as a studio master class on Tuesdays.

MEN 3300 CONCERT CHOIR 1 cr.
A highly select choir of forty-eight voices. Presents a concert each semester and joins with other choruses for choral festivals. Performs choral literature spanning five centuries and in a variety of languages. The choir is a touring ensemble. Audition required.

MEN 3301 FESTIVAL CHORUS 1 cr.
A large mixed chorus providing opportunity to experience great choral literature. Students present a concert each semester and join other choruses for choral festivals.

MEN 3302 OPERA WORKSHOP 1 cr.
The study and performance of operatic and musical comedy scenes chosen according to the abilities of the students in the workshop. Full-scale musical comedy productions are done in conjunction with the department of speech, communications and theater. Under supervision, students perform in, musically direct, coach, accompany, conduct, and stage-direct various scenes.

MEN 3303 MANSFIELDIANS 1 cr.
A vocal jazz/madrigal ensemble which specializes in singing jazz, madrigal, and folk music. This group is available for performance in public schools, service agencies, and alumni functions. Audition required.

MEN 3304 CHAMBER SINGERS 1 cr.
A vocal chamber ensemble of twelve to sixteen singers. Specializes in repertoire of the 16th century Madrigal, 19th & 20th century part-song, and vocal jazz. Concerts given at the university and off campus by request. Audition required.

MEN 3305 VOCAL ENSEMBLE 1 cr.
Studies and performs representative works for various vocal combinations.

MEN 3310 PIANO ENSEMBLE 1 cr.
Studies and performs two-piano and four-hand literature, chamber music, sonatas, and trios, including accompaniment of standard instrumental and vocal literature.

MEN 3330 CONCERT WIND ENSEMBLE 1 cr.
A select ensemble of wind and percussion players. Concerts given on and off campus. Membership is open to all university students by audition.

MEN 3331 MOUNTIE MARCHING BAND 1 cr.
Performs at all home games, travels for recruitment and promotion of MU and hosts the Mansfield University band day, as well as special functions, and international events.

MEN 3332 SYMPHONIC BAND 1 cr.
Studies a wide variety of band literature and presents concerts on campus. Membership is open to all university students. Auditions are for seating purposes only.

MEN 3333 WOODWIND ENSEMBLE 1 cr.
Study and performance of representative works for various woodwind ensembles. One woodwind quintet and one sax quintet take an annual tour.

MEN 3334 BRASS ENSEMBLE 1 cr.
Study and performance of representative works for various combinations of brass instruments.

MEN 3335 CONCERT JAZZ BAND 1 cr.
Performs on-campus several times each year, as well as, touring and performing concerts off-campus. Membership by audition.

MEN 3336 SMALL JAZZ AND COMMERCIAL ENSEMBLES 1 cr.
Provides the opportunity for students to gain supervised experience in performing jazz and other current professional music idioms in small groups. Dual listed with 5536.

MEN 3350 ORCHESTRA 1 cr.
The College-Community Symphony provides an opportunity to participate in the performance of standard symphonic literature. Our orchestra presents a concert each semester, accompanies outstanding student soloists, participates in the biennial choral festival, and is a touring ensemble.

MEN 3351 STRING ENSEMBLE 1 cr.
Study and performance of standard literature for string ensembles.

MEN 3357 GUITAR ENSEMBLE 1 cr.
Introduction to the technique and repertoire of guitar ensemble music and ensemble performance skills.

MEN 3360 PERCUSSION ENSEMBLE 1 cr.
Study and performance of representative works for all combinations of percussion instruments.

MUSIC - THERAPY

MTH 1171 THERAPY ORIENTATION 3 cr.
Studies the nature of music therapy and the therapeutic process. Students will gain a better understanding of the clients served and the types of treatment available.

MTH 2210 CLINICAL INTEGRATION I 1 cr.
Students will participate in weekly laboratory experiences on campus and in a clinical setting. Written assignments and a workshop experience are required. Prerequisite: MAP 1157, MTH 1171, and SPE 1101.

MTH 2211 CLINICAL INTEGRATION II 1 cr.
Students will participate in weekly lecture/discussion sessions and clinical experiences. Written assignments and a workshop experience are required.

MTH 2211L CLINICAL ORIENTATION LABORATORY 1 cr.
Clinical Orientation laboratory. Prerequisite: MTH 1171.

MTH 3352 MOVEMENT IN MUSIC THERAPY 2 cr.
A survey of the uses of movement in Music Therapy. Students will explore choreographed, expressive, and authentic movement.

MTH 3372 PSYCHO-SOCIAL FOUNDATIONS OF MUSIC 3 cr.
Studies the functions of music in society and the psychological attributes of music. Students gain a better understanding of the effects and properties of music in human life. A paper and an oral report are required.

MTH 4410 ADVANCED CLINICAL INTEGRATION I 1 - 2 cr.
Provides preparation for advanced clinical work with a wide range of client populations. Provides relevant academic preparation and opportunities to develop clinical skills and to deepen personal awareness. A workshop experience is required. May be taken for 1 or 2 credits, but no more than 4 credits. Prerequisite: MTH 1171, 2210, 2211, and 2211L.

MTH 4411 ADVANCED CLINICAL INTEGRATION II 1 - 2 cr.
Provides preparation for advanced clinical work with a wide range of client populations. Provides relevant academic preparation and opportunities to develop clinical skills and to deepen personal awareness. A workshop experience is required. May be taken for 1 or 2 credits not to exceed 4 credits. Prerequisite: MTH 1171, 2210, 2211, and 2211L.

MTH 4471 INFLUENCE OF MUSIC ON BEHAVIOR 3 cr.
A survey of research in music therapy with a focus on ways music can be employed in the therapeutic process to change problem behaviors. A paper is required.

MTH 4472 MUSIC IN THERAPY 3 cr.
Studies the relationships of music therapy to institutional organization and administration, as well as, other therapeutic disciplines. A project/paper is required.

MTH 4475 INTERNSHIP 2 cr.
A practical application of theories of uses of music in therapeutic settings. Choices such as a hospital, state school, correctional facility, public school, special education, and private school may be available.

MUSIC

MU 1101 INTRODUCTION TO MUSIC 3 cr.
Studies principal vocal and instrumental forms and media. Surveys important compositions from the early Baroque to the present.

MU 1102 FUNDAMENTALS OF MUSIC 3 cr.
The fundamentals of music theory (melody, rhythm, harmony, form, and timbre) are introduced in a "hands-on" practical manner. Activities include analysis of music examples, composition, guided listening, performing, and keyboard theory lab. Music fundamentals will be approached from the standpoints of the listener, the performer, and the composer.

MU 1141 INTRODUCTION TO MUSIC EDUCATION 1 cr.
Provides an overview of music education and an acquaintance with the process of teaching and learning music in the elementary and secondary schools.

MU 1151 EURYTHMICS I 1 cr.
Laboratory experience in rhythmic movement to develop skill and greater perception of common rhythms. The Jacques Dalcroze philosophy is followed.

MU 2201 INTRODUCTION TO JAZZ 3 cr.
Studies the evolutionary history of jazz from the earliest African and European influences to the present. Emphasizes listening experiences and develops an awareness of the unique role of jazz in American culture.

MU 2205 WOMEN IN MUSIC 3 cr.
The study of women composers and performers through reading and recordings, including western and non-western music traditions.

MU 2211 BASIC MUSIC I 3 cr.
Development of vocabulary; study of modes, scales, harmonic rhythmic, and composition techniques. Supportive examples selected from all periods of music. Sight singing and dictation. May be repeated for a total of six credits.

MU 2212 BASIC MUSIC II 3 cr.
Continuation of 211. Analysis and creative projects involving Baroque practices of figured bass, functional harmony, modulation, and altered chords. Prerequisite: MU 2211. May be repeated for a total of six credits.

***MU 2220 WESTERN MUSIC UNTIL 1750 3 cr.**
Surveys Western European musical literature and styles beginning with the early Christian era through the Renaissance and Baroque.

MU 2241 MUSIC IN THE ELEMENTARY SCHOOL 2 cr.
Studies the developmental and musical characteristics of children ages 5-11. Emphasizes teaching the elements of music through musical activities appropriate for this age group. Includes a survey of current materials as well as observation/participation in the local elementary school. Particular attention is given to curricular development for vocal and general music classes. Prerequisite: MU 1141, 2212 and fifteen hours of pre-professional experience.

MU 2250 BASIC CONDUCTING 1 cr.
Lecture and laboratory experiences with basic conducting techniques. Special emphasis on speaking and moving to rhythms. Students conduct class as a music ensemble.

***MU 3221 CLASSIC AND ROMANTIC MUSIC 3 cr.**
Surveys Western European musical literature and musical styles of the Classic and Romantic Eras. Prerequisite: MU 2220.

***MU 3222 POST ROMANTIC AND 20TH CENTURY MUSIC 3 cr.**
Surveys Western European and American musical literature and musical styles beginning with the Post-Romantic Era through main currents of 20th-century composition. May be taken for 2 or 3 credits only. Prerequisite: MU 3221 or permission of instructor.

MU 3261 FUNDAMENTALS OF JAZZ IMPROVISATION I 2 cr.
Beginning course in jazz improvisation. Study of fundamental chord types and appropriate scales/modes. Concentration will be on the blues form and diatonic harmony in major keys. Focus in on generating melodic lines in the jazz idiom based on goal notes, i.e. chord tones.

MU 3262 FUNDAMENTALS OF JAZZ IMPROVISATION II 2 cr.
Continuation of 3261. Study of more complex chord extensions and/or alterations and appropriate scales/modes. Concentration will be on the II-V-I progression in both major and minor keys. Focus will again be on generating melodic lines in the jazz idiom based on goal notes, i.e. chord tones.

MU 3301 WORLD MUSICS 3 cr.
Music of various continents are explored with particular emphasis on each tradition's cultural function. Provides the fundamental research and comparative skills needed to understand and listen to selected non-western music. Includes discussions of how Western art and popular music incorporate these styles.

MU 3311 BASIC MUSIC III 3 cr.
Studies more elaborate harmonic and formal structures. Examines macro-micro elements in relation to performance practices. Creative and analytic projects based on fugal style, rondo and sonata form, and the art song. Prerequisite: MU 2212.

MU 3312 BASIC MUSIC IV 3 cr.
Examines contemporary techniques. Examples selected from Debussy to post-1950. Creative projects involving the whole tones and twelve-tone scales, and aleatoric and electronic compositions. Sight singing and dictation to include atonal pitch sets. Prerequisite: MU 3311.

MU 3313 ELECTRONIC MUSIC I 2 cr.
Survey of electroacoustic music technology with emphasis on MIDI applications. Provides hands-on experience with computer-based sequencing and music notation. Prerequisite: MU 2212.

MU 3314 COMPUTER-BASED MUSIC NOTATION 1 cr.
This course provides hands-on instruction in computer-based music notation. Software such as Finale, Sibelius, Band-in-a-Box, Overture and Administrative applications are explored.

MU 3315 ORCHESTRATION 3 cr.
Designed to provide the basic skills of notation, parts extraction, transposing and arranging, in addition to information on instrumental ranges, qualities, and usages. Strings, woodwinds, and brass are treated as distinct families. Provides a fluent understanding of skills and concepts and, as a by-product, the student will become more aware of score reading and audio awareness. Good manuscript habits will make it possible for musicians to read new music and students will be able to use these skills in graduate school. Prerequisite: MU 3312 or permission of instructor.

MU 3318 KEYBOARD SKILLS 1 cr.
More complex accompanimental styles, secondary dominant chords, improvisation, transposition, "playing by ear," modulatory techniques, sight reading from junior high music series, sight reading melodies and supplying accompaniment.

MU 3323 STUDIES IN KEYBOARD LITERATURE 3 cr.
Study of keyboard literature from the late Renaissance to the present day.

MU 3340 TEACHING MUSIC 3 cr.
Designed to enable elementary education majors to integrate the teaching of music into the mainstream of the elementary school curriculum. Fundamentals of music, musical characteristics of children, concept development, and musical activities appropriate for the age group will be stressed. Includes observation/participation in the local elementary school.

MU 3342 MUSIC IN THE SECONDARY SCHOOL 2 cr.
Studies the developmental and musical characteristics of students ages 12-18. Emphasizes teaching the elements of music through musical experiences appropriate for this age group. Includes a survey of current materials as well as observation/participation in the local secondary school. Particular attention is given to classroom management, students with exceptionalities of all ages, curriculum development in general music classes, elective classes, and an overall philosophy of music education. Prerequisite: MU 3341 and fifteen hours of pre-professional experience.

MU 3343 INSTRUMENTAL MUSIC IN PUBLIC SCHOOLS 2 cr.
Study of a suitable instrumental program for a public school system. Particular attention to class teaching techniques of the various instruments. Problems of organization and administration of such a program; survey and examination of the available instructional material. Prerequisite: MU 3342, 3351.

MU 3344 VOCAL-CHORAL MUSIC IN THE PUBLIC SCHOOLS 2 cr.
Study of a suitable choral program for a public school system. The course emphasizes the teaching of voice and ensemble singing through the developmental stages of young singers. Students observe and participate in vocal/choral music-making with elementary, middle, and high school choirs. Prerequisite: MU 3342, 3350.

MU 3350 CHORAL CONDUCTING 2 cr.
Prepares the future music educator to organize, teach, and conduct choral organizations of varying levels of achievement, particularly junior and senior high school age groups. Experience in conducting the class as a chorus is integral to the course. Prerequisite: MU 2212, 2250, MAP 1114.

MU 3351 INSTRUMENTAL CONDUCTING 2 cr.
Prepares for conducting instrumental groups. Emphasis on communicative and control techniques of conducting and rehearsal and performance techniques. Experience through conducting a laboratory band and orchestra. Videotaping is utilized extensively with each individual. Prerequisite: MU 2212, 2250.

MU 3352 DICTION I FOR SINGERS 2 cr.
This course will use the International Phonetic Alphabet (IPA) to present a systematic approach to the pronunciation of vocal literature in Italian, Latin, and German, examining those elements of pronunciation which must be modified from the spoken language into the singing language. The course will require solo and group preparation of songs in each language, including precise translations for foreign language literature and will provide for class criticism and discussion of performance in an effort to develop critical hearing.

MU 3353 DICTION II FOR SINGERS 2 cr.
This course will use the International Phonetic Alphabet to present a systematic approach to the pronunciation of vocal literature in English and French, examining those elements of pronunciation, which must be modified from the spoken language into the singing language. The course will require solo and group preparation of songs in each language, including precise translations for foreign language literature and will provide for class criticism and discussion of performance in an effort to develop critical hearing.

MU 3361 JAZZ ARRANGING I 2 cr.
A course in the study of the fundamentals of jazz arranging. Includes standard formats and part notation; appropriate ranges and transpositions of common jazz instruments and arranging for combos up to four horns and rhythm section.

MU 3362 JAZZ ARRANGING II 2 cr.
A more advanced course in the styles and techniques of arranging for modern jazz ensembles of all sizes.

MU 3363 JAZZ ENSEMBLE MATERIALS AND TECHNIQUES 2 cr.
Acquaints prospective directors of secondary school performing jazz ensembles with materials and techniques appropriate to the idiom. Highly useful to students interested in amateur or professional jazz ensemble performance outside of educational institutions. Dual listed with 5563.

MU 4400 STUDENT TEACHING 12 cr.
(By arrangement). Opportunity to apply knowledge and skills acquired in professional preparation. Accomplished by a field experience in university established centers under supervision of qualified cooperating teachers. Observations and conferences are scheduled by the departmental supervisor. Prerequisite: 2.5 QPA.

MU 4410 FORMS AND ANALYSIS 3 cr.
Various methods of musical analysis are studied and applied to compositions representative of various periods of music history. Prerequisite: MU 3312.

MU 4411 COUNTERPOINT 3 cr.
Studies the contrapuntal style of the late 17th and early 18th centuries. Prerequisite: MU 3312.

MU 4417 COMPOSITION 3 cr.
Contemporary techniques of musical composition; emphasis on creative work. Prerequisite: MU 3312

MU 4420 SONG LITERATURE 3 cr.
Studies development of monophonic song from the days of the troubadours and troupers to the present time. Emphasizes especially the history of the German lied, the French chanson or melody, and solo song in the British Isles and the United States. Also includes the major composers of song in the Slavic countries, Spain, South America, and Scandinavia.

MU 4421 CHORAL LITERATURE 2 cr.
The study of choral repertoire from each historical period including literature from the spiritual, folk, and jazz idioms. Course will include music for choirs from elementary school through collegiate levels as well as issues regarding performance practice, vocal warm-ups, and rehearsal techniques. Prerequisites MU 3350, MU 3351.

MU 4427 CONTEMPORARY MUSIC 3 cr.
Surveys the styles, forms, and musical techniques of contemporary music.

MU 4428 AMERICAN MUSIC 3 cr.
Historical background and development of music in the United States from colonial times to the present. Studies the principal composers and their music. Reading, research, and listening emphasized.

MU 4429 ADVANCED STUDIES MUSIC LITERATURE 3 cr.
Intensive study of selected choral, solo, chamber, and orchestral masterpieces: emphasis on formal and stylistic developments. Prerequisite: MU 2221, 2222, 3321, and 3322.

MU 4431 THE SYMPHONY 3 cr.
Studies orchestral music from its beginning. The Mannheim composers, the Viennese classics, the Romanticists, and contemporary composers. Works will be analyzed and their historical, cultural, and philosophical backgrounds discussed.

MU 4432 THE CONCERTO 3 cr.
Emphasizes the development of the concerto and the stylistic contributions of the great masters. Representative works will be studied in score and recordings.

MU 4437 WIND BAND LITERATURE 2 cr.
The study of wind band literature considered standard in the performance repertoire at the high school level with an emphasis on developing the skills to recognize works that are artfully crafted. Prerequisites: MU 3315 and MU 3351.

MU 4458 BASIC WOODWIND REPAIR 2 cr.
Designed to give the student the knowledge and skills needed to repair the majority of problems encountered on woodwind instruments.

MU 4459 MARCHING BAND TECHNIQUES 2 cr.
Detailed study of the marching band including philosophy, styles, charting, music, materials, instrumentation, administration, and contemporary techniques.

MU 4471 VOCAL PEDAGOGY 2 - 3 cr.
A study of the teaching of singing on an individual or group basis. Study of the five elements of singing: respiration, phonation, resonation, articulation, and interpretation. An examination of various approaches to voice teaching, including a study of books on voice pedagogy. May be taken for 2 or 3 credits only. Prerequisite: permission of instructor.

MU 4472 PIANO PEDAGOGY 2 cr.
Studies procedures for class and individual instruction: emphasizes the ear approach as the basis for reading, true musical perception and intelligent understanding of the printed page. Examines and evaluates materials suitable for the first years of piano study. Prerequisite: permission of instructor.

MU 4473 PRACTICUM IN PIANO TEACHING 1 cr.
Introduces class and individual instruction techniques to be used with young beginners. Prerequisite: MU 4472.

MU 4474 STRING PEDAGOGY 2 cr.
Evaluates string methods and materials, gives hands-on practice on feedback on string lesions, grades and organizes string music literature, present history of string teaching and offers a repertory of teaching techniques and routines. Prerequisites MAP 1151, MAP 1152.

MU 4475 WOODWIND PEDAGOGY 2 cr.
Acquaints students with the woodwind instruments and their solo and ensemble literature. Lecture, demonstration, films, tapes, and recordings presented for flute, oboe, bassoon, clarinet, and saxophone.

MU 4476 BRASS PEDAGOGY 2 cr.
Studies the techniques, teaching problems, teaching materials, history, and literature related to the brass instruments.

MU 4477 PERCUSSION PEDAGOGY 2 cr.
Studies teaching techniques and associated literature of the various percussion instruments.

MU 4481 SURVEY OF THE BUSINESS OF MUSIC 3 cr.
Presents an overall view of music merchandising, describes the various types of retailing, and acquaints the student with the administration, advertising, marketing processes, and consumer orientation necessary for the education of a person in the retail-wholesale aspects of the music industry.

MU 4489 INTERNSHIP: MUSIC MERCHANDISING 12 cr.
Provides experiences in the following: (a) a "hands-on experience", (b) an opportunity to observe professionals in the field, (c) a broadening and understanding of problems and careers in the field, (d) an educationally directed field instruction, (e) an opportunity to apply knowledge, theory, and understanding in a job situation, and (f) an opportunity to develop marketable skills.

MU 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

NURSING

NUR 1170 INTRODUCTION TO THE HEALTH SCIENCES 1 cr.
This course introduces students to the health professions. It explores the evolution of different health care roles with an introduction to legal, ethical, and professional issues. Basic communication skills are presented.

NUR 3260 CONCEPTS OF PROFESSIONAL NURSING 3 cr.
A seminar designed to introduce RN students to the theoretical and philosophical bases underlying professional nursing practice. Role theory with an emphasis on the development of the professional self-concept will be explored. Open to RN students only.

NUR 3261 HEALTH ASSESSMENT ACROSS THE LIFE SPAN 3 cr.
This course is designed to assist the RN to BSN student develop the skills necessary to perform health assessments. The course incorporates the principles of interviewing, comprehensive health history, sequential physical assessment, and analysis and documentation of collected data. Prerequisites: NUR 3260 or instructor permission.

NUR 3270 INTRODUCTION TO PROFESSIONAL NURSING I 3 cr.
This course provides a theory and skills foundation for professional nursing, and the role of the professional nurse is explored. The Nursing process, health care needs of individuals, and health physical assessment are central concepts. The history of nursing and the laboratory component concentrate on acquisition of professional nursing skills. Co-requisite: NUR 1170.

NUR 3271 INTRODUCTION TO PROFESSIONAL NURSING II 4 cr.
This course builds on the concepts introduced in NUR 1170 and 3270. Course content focuses on developing a global awareness of cultures outside of the United States, and the impact of culture on nursing practice. There is a continuation of the application of the nursing process to human needs and responses to illness and human development. The laboratory component focuses on gaining basic clinical skills and applying them in the student's first clinical experience. Prerequisites: NUR 1170 and NUR 3270.

NUR 3361 INTRODUCTION TO NURSING RESEARCH 2 cr.
This course provides an overview of the steps in the research process, and the ethical and legal implications involved in scientific inquiry. Emphasis is on knowledge and methods required to critically evaluate research studies and reports. Prerequisites: NUR 3270 and 271 or NUR 3260; MA 1125; or instructor permission.

NUR 3370 NURSING CARE OF THE ADULT CLIENT 8 cr.
Explores the use of the nursing process with adult clients as they encounter actual and potential stressors along with the wellness-illness continuum. The clinical lab provides the student with opportunities to apply the nursing process at all levels of prevention and to observe various roles of the professional nurse within the health care system. Prerequisite: BSC 1121, BSC 1122, BSC 3271 (or BI 3371), CHM 1110, NUR 3270 and NUR 3271.

NUR 3371 NURSING CARE OF CHILDBEARING AND CHILD REARING FAMILIES 8 cr.
Explores the use of the nursing process with individual and family clients. The focus of the role of the nurse in meeting the health care needs of childbearing and child rearing families at all levels of prevention and in a variety of settings. The course content focuses on growth and development, family issues and assessment, the change process, and stressors for and reaction of individuals and families. Prerequisite: BSC 1121, BSC 1122, BSC 3271 (or BI 3371), CHM 1110, NUR 3270 and NUR 3271.

NUR 3391 THE PATHOPHYSIOLOGIC AND PHARMACOLOGIC BASES OF NURSING II 3 cr.
This course examines pathophysiological concepts of altered health states of selected body systems along with appropriate pharmacological management and nursing implications. Includes alterations in cell function, metabolism, stress and adaptation, inflammation, immunity, oxygenation, and cardiac function. Prerequisites: NUR 3270, NUR 3271, BSC 1121, BSC 1122 and BSC 3271 or BI 3371.

NUR 3392 THE PATHOPHYSIOLOGIC AND PHARMACOLOGIC BASES OF NURSING II 3 cr.
This course examines pathophysiological concepts of altered health states of selected body systems along with appropriate pharmacological management and nursing implications. Includes alterations in respiratory function, fluids and electrolytes, renal function, gastrointestinal function, endocrine function, and neurological function. Prerequisites: NUR 3270, NUR 3271, BSC 1121, BSC 1122, BSC 3271 or BI 3371.

NUR 4402 WOMEN'S HEALTH ISSUES 3 cr.
Designed to explore and analyze a wide range of women's health issues from a multi disciplinary perspective. It is presented in a seminar format utilizing feminist pedagogy. A high level of student participation is expected.

NUR 4411 CASE STUDIES IN NURSING 3cr.
This course focuses on improving the student's ability to plan and deliver high quality nursing care through the use of patient case studies. These case studies will include all aspects of nursing care and will help enhance the student's critical thinking abilities, improve efficiency with the nursing process and contribute to communication skills.

NUR 4430 COMMUNICATIONS IN NURSING 3 cr.
Provides both theory and classroom experiences with communications in nursing which will support, reinforce, and expand on concepts from previous courses. The acquisition of knowledge and the development of skills, which will assist one in becoming more effective in the client-nurse relationship, are emphasized. Verbal and non-verbal communication techniques, problem solving, empathy, self-disclosure, confrontation, relaxation, and responsible/assertive communications are some of the topics are examined. Prerequisite: COM 1101, NUR 3270 and NUR 3271.

NUR 4433 HEALTH PROMOTION AND DISEASE PREVENTION STRATEGIES 3 cr.
An interdisciplinary, international investigation of health promotion taught from the perspective of various disciplines with an emphasis on issues of nutrition, exercise, health behaviors and motivational theory. It is designed to familiarize students with implementing strategies for health promotion and disease prevention on the personal and community level. Active participation by the student in a health promotion project will be required.

NUR 4454 GERONTICS/NORMAL AGING 3 cr.
Provides both theoretical content and interaction with the well-elderly. Assessing and assisting the aging to maintain wellness will be the major focus. Prerequisite: NUR 3270, 3271 and SOC 1101

NUR 4460 CURRENT ISSUES IN PROFESSIONAL NURSING 3 cr.
A seminar which examines current trends, controversies, questions, and dilemmas of professional nursing. The influence of political, ethical/legal, economic, and societal aspects on nursing practice and education are explored. Prerequisite: junior level nursing courses.

NUR 4465 RURAL HEALTH ISSUES 3 cr.
The central focus of this course is to define and conceptually explore the essence of rurality and rural health issues. A comparison of the uniqueness of rural health issues will be explored from a global and curltural perspective. Identifying the cross cutting factors that tie rural to urban health care systems will assist the student to develop and understanding of the advocacy role of rural health care providers.

NUR 4471 COMMUNITY HEALTH NURSING 6 cr.
Explores the scope of community health nursing considering the multiple frameworks of nursing theory and process, family theory and practice, and public health principles. Emphasis is placed on studying the relationships between individual, family, and community health care needs. Prerequisite: junior level nursing courses

NUR 4472 MENTAL HEALTH NURSING 6 cr.
Focuses on the mental health concepts relative to the nursing care of clients. The nursing process is examined and applied primarily with individuals, but also includes families, groups, and communities and takes place in a variety of settings. Emphasis is placed upon the nurse's role of collaboration with other health care professionals in meeting the health care needs of clients at all levels of prevention. Prerequisite: junior level nursing courses

NUR 4480 LEADERSHIP AND MANAGEMENT IN NURSING 3 cr.
Introduces the student to the theoretical foundation for the practice of independent and interdependent nursing by discussing current leadership and management concepts and their relevance to professional nursing practice. Prerequisite: junior level nursing courses.

NUR 4485 FAMILY NURSING 3 cr.
The concept of family is studied and analyzed in terms of both health and illness. This course emphasizes the nursing process as it applies to the family unit. Students will use the Betty Newman Nursing Model to study selected families. Prerequisite: NUR 3271 or 3260; NUR 3370 or 3371.

NUR 4490 CARE OF THE CLIENT WITH MULTISYSTEM STRESSORS 8 cr.
Advanced concepts of acute care nursing are applied to complex health problems in clients with multisystem stressors. Prerequisites: NUR 3370, NUR 3371, NUR 3391 and NUR 3392.

NUR 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 - 3 credits at one time.

PHILOSOPHY

PHL 1191 ETHICAL ISSUES IN ALLIED HEALTH CARE 3 cr.
Especially designed for individuals pursuing careers in respiratory therapy and radiology technology. Topics include informed consent, paternalism, professional accountability, access to professional services, policy implications and the control of technology, and the benefits of health-care practices. May not be used as a substitute in the Nursing Program for PHL 3380; not a General Education Humanities course.

***PHL 2201 INTRODUCTION TO PHILOSOPHY 3 cr.**
Examines the basic foundational beliefs in the religious, scientific, ethical, and political dimensions of life. Exercises the student's ability to identify his/her own basic beliefs and subject these to critical evaluation. Examples of issues discussed are whether ethical values are relative, the existence of God, the nature of justice, and human freedom.

***PHL 2202 CONTEMPORARY MORAL PROBLEMS 3 cr.**
Analyzes moral arguments pertaining to difficult contemporary issues, with emphasis on clarifying and evaluating these. Discussion subjects include: abortion, euthanasia, the moral status of animals, the environment, the rights of women and minorities, censorship and pornography, etc. Course goal is to enable the student to assess the strengths and weaknesses of the various positions on each issue. PHL 2202 is suitable as an entry level course in Philosophy.

***PHL 2200 CRITICAL THINKING 3 cr.**
This course is designed to improve a student's ability to recognize and evaluate arguments and claims as they occur in a variety of contexts, such as editorials, articles, debates, newscasts, speeches, advertisements, and conversations. Logical fallacies, common ways in which arguments go wrong, will be studied, along with the features of good reasoning. Various forms of inductive or informal argumentation will be analyzed, including scientific, legal and everyday reasoning.

***PHL 2259 PHILOSOPHY OF RELIGION 3 cr.**
Analyzes the validity of various proofs of God's existence. Also examines religious language, the difference between faith and reason, the question of religious authority, and the reasonableness of the religious lifestyle.

***PHL 3230 FORMAL LOGIC 3 cr.**
Examines forms of argumentation and formal reasoning, including inductive inference, categorical syllogisms, and propositional logic. In addition to examining both standard and non-standard categorical arguments, this course provides an introduction to symbolic notation, the use of truth tables, and the rules of natural deduction. Required for the Philosophy major.

***PHL 3260 TOPICS IN PROFESSIONAL ETHICS 3 cr.**
This course will examine both moral reasoning and ethical principles as they apply to issues and practices in such professions as business, education, law, police work, scientific research, clinical psychology and psychiatry, social work and information technology. Each offering may emphasize different professions or one specific profession. With instructor's approval, may be repeated for credit. Prerequisite: PHL 2201 or PHL 2202, or permission of instructor.

***PHL 3300 PHILOSOPHY OF THE ARTS 3 cr.**
A detailed survey of both classical and modern aesthetic theories along with a criticism of each. Prerequisite: PHL 2201 or PHL 2202 or permission of instructor.

PHL 3305 PHILOSOPHY AND FILM 3 cr.
Aesthetic, ethical and epistemological issues surrounding the moving image. Topics include: realism, neo-realism, the new wave, feminism and the influence of existential and Marxist philosophies on cinematic theory. Prerequisite: PHL 2201 or PHL 2202 or permission of instructor.

PHL 3310 SOCIAL AND POLITICAL PHILOSOPHY 3 cr.
An analysis of philosophical concepts and arguments presupposed in social and political discourse. Topics include: liberty and its limits, human rights, economic and social justice, the nature of political obligation and disobedience. Emphasis is on evaluating philosophical theories from both contemporary and historical sources: Prerequisite: PHL 2201 or PHL 2202 or permission of instructor.

***PHL 3316 ENVIRONMENTAL ETHICS 3 cr.**
An analysis of philosophical and ethical arguments involving environmental issues. Topics include the nature of rights, models of normative decision-making, and case studies.

PHL 3320 PHILOSOPHY OF LAW 3 cr.
An analysis of philosophical concepts and arguments presupposed in legal discourse and reasoning. Topics will include: the nature of law and legal decision making; theories of justice, privacy, responsibility and punishment. Emphasis is on examining specific legal cases from both contemporary and historical sources. Prerequisite: PHL 2201, or PHL 2202 or permission of instructor.

PHL 3330 EASTERN APPROACHES TO REALITY 3 cr.
An examination of the philosophical perspective of the Eastern mind as exhibited in Hinduism, Buddhism, Taoism, Confucianism, and Zen Buddhism. Primary focus is on the difference between the Eastern and Western modes of looking at the world. Prerequisite: PHL 2201 or PHL 2202 or permission of instructor.

PHL 3333 HISTORY OF RELIGIONS IN NORTH AMERICA 3 cr.
Surveys the impact of the development of religious movements, institutions, ideas, practices and values on US and Canadian cultures, politics and society.

***PHL 3340 ETHICS 3 cr.**
Examines how to make rational decisions in situations with a moral dimension. Examines traditional and contemporary applied problems in ethics, e.g. sexual morality, cheating. Examines the moral implications of various lifestyles. Course goal is to assist students in developing the ability to function as morally autonomous persons. Prerequisite: PHL 2201 or PHL 2202 or permission of instructor.

PHL 3345 NORTH AMERICAN PHILOSOPHIES 3 cr.
Examines some of the major trends in philosophy in the U.S. and Canada, especially pragmatism and idealism. The course will focus on the relation of philosophy to other aspects of the North American experience, e.g. religion, education, economics, politics, and culture. Attention will be paid to the differences between Native American, European American, and African American traditions. Prerequisites: PHL 2201or PHL 2202 or permission of instructor.

PHL 3365 SCIENCE AND VALUES 3 cr.
Examines problems raised by science and technology. Topics will include: the ethics of experimentation; racism and sexism in science; the limits to technological growth; ecological and nuclear disaster; creationism versus evolutionism; ugliness and beauty in a technological environment. This course is geared to both specialists and non-specialists in philosophy or science. Prerequisite: PHL 2201 or PHL 2202 or permission of instructor.

***PHL 3380 HEALTH CARE ETHICS 3 cr.**
An examination of the arguments designed to provide solutions to moral problems commonly faced by health care professionals. Topics include: lies to the sick and dying; abortion; euthanasia, privacy and confidentiality, paternalism, and moral theory.

PHL 3390 EXISTENTIALISM 3 cr.
Analyzes this twentieth-century movement which emphasizes human uniqueness and value. Existential themes include freedom, commitment, self-determination, and authenticity. Major philosophers considered are Kierkegaard, Nietzsche, Heidegger, and Sartre. Prerequisite: PHL 2201 or PHL 2202 or permission of instructor.

PHL 3470 THEORIES OF MIND AND KNOWLEDGE 3 cr.
A study of some of the philosophical theories involved in understanding the nature of the human mind and what constitutes knowledge. Some of the topics or concepts which may be examined are behaviorism, identity theory, folk psychology, functionalism, consciousness, intentionality, belief, justification, skepticism, and artificial intelligence. Attention will be paid to recent developments in neuroscience and the social sciences, especially psychology. Prerequisite: PHL 2201 or PHL 2202 or permission of the instructor.

PHL 4420 CLASSICAL GREEK PHILOSOPHY 3 cr.
A serious investigation of Western philosophy from the beginning through Aristotle. The relationships between philosophy and other areas of Greek culture are examined. Extended treatments of the pre-Socratics, Plato, and Aristotle are presented. Prerequisite: PHL 2201 or PHL 2202 or permission of instructor.

PHL 4422 TOPICS IN MODERN PHILOSOPHY 3 cr.
Includes study of the philosophical thought of the early scientists whose investigations culminated in the contemporary scientific method. Philosophers of the 17th and 18th centuries are examined, from Thomas Hobbes to Immanuel Kant. Problem areas of this period are: the mind-body relationship, the possibility of knowledge, perception, and the status of ideas. Prerequisite: PHL 2201 or PHL 2202 or permission of instructor.

PHL 4423 TWENTIETH CENTURY PHILOSOPHY 3 cr.
Analysis of the defining features of major philosophical movements in the twentieth century. The movements which may be examined include linguistic analysis, logical positivism, pragmatism, deconstruction, philosophy of mind, postmodernism, and feminism. Prerequisite: PHL 2201 or PHL 2202 or permission of instructor.

PHL 4450 INTERNSHIP 3-12 cr.
Information can be obtained from Philosophy chairperson. No more than six credits count toward the Philosophy Major.

PHL 4490 SEMINAR 1 - 3 cr.
A supervised investigation of a specialized problem in philosophy or into the writings of a specific philosopher or philosophic movement. Prerequisite: PHL 2201or PHL 2202 or permission of the instructor. May be taken for 1 - 3 credits.

PHL 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 - 3 credits at one time.

PHYSICS

Weekly hour information [lecture, recitation, laboratory]

***PHY 1151 CONCEPTUAL PHYSICS I 4 cr. [3, 0, 2]**
An introduction to both classical and modern physics without the use of calculus. Designed to enable the student to appreciate the role of physics in society.

***PHY 1152 CONCEPTUAL PHYSICS II 4 cr. [3, 0, 2]**
Continuation of PHY 1151.

PHY 1165 PHYSICS FOR THE ALLIED HEALTH SCIENCES 3 cr. [3, 0, 0]
Designed to give students in the Allied Health Sciences the physics background needed for their professional work. Selection of material is based on the appropriateness of the life sciences without limiting basic concepts found in all introductory physics courses.

PHY 1180 QUANTITATIVE METHODS FOR THE PHYSICAL SCIENCES 3 cr. [3, 0, 0]
Introduction to the application of mathematical analysis to physical situations. Problem solving using algebraic, statistical, calculus, and computer methods. Corequisite: MA 2231.

***PHY 1191 PHYSICS I 4 cr. [3, 1, 2]**
A one-year sequential calculus physics course discussing classical mechanics, fluids, thermodynamics, classical electricity and magnetism, optics and waves, modern physics. Application of physics to life science is made in problem selection and laboratory experimentation. Corequisite: MA 2231.

***PHY 1192 PHYSICS II 4 cr. [3, 1, 2]**
Continuation of PHY 1191. Prerequisite: PHY 1191.

***PHY 2210 GENERAL PHYSICS I 4 cr. [3, 1, 2]**
A calculus based, introductory physics course emphasizing classical concepts. Selected topics include: motion, work and energy, gravitation, electricity and magnetism, and electromagnetic waves. Prerequisite: MA 2231. Co-requisite: MA 2232.

***PHY 2211 GENERAL PHYSICS II 4 cr. [3, 1, 2]**
Continuation of PHY 1191 or 2210. Corequisite MA 2233.

PHY 3264 PHYSICAL METHODS IN FORENSIC SCIENCE 3 cr. [2, 0, 2]
An advanced treatment of the physical methods used in the investigation of criminal activities. Topics covered include: statistical treatment of data, material properties of matter, ballistics, hair and fiber identification, physical markings, and spectral analysis. Prerequisites: CHM 1110, SCI 1104, SCI 1107

PHY 3311 MODERN PHYSICS I 3 cr. [3, 0, 0]
An introduction to 20th century physics, including the structure of atoms and nuclei, basic ideas of quantum mechanics and solid state theory. Prerequisite: MA 2233. Corequisite: MA 3311.

PHY 3312 MODERN PHYSICS II 3 cr. [3, 0, 0]
Continuation of PHY 3311.

PHY 3313 PHYSICAL MECHANICS I 3 cr. [3, 0, 0]
An analytic treatment of classical mechanics covering the methods of statics and dynamics of rigid bodies with application to physical problems; small oscillations, generalized coordinates and Lagrange's equations. Prerequisite: MA 2233 and PHY 2211. Corequisite: MA 3311.

PHY 3314 PHYSICAL MECHANICS II 3 cr. [3, 0, 0]
Continuation of PHY 3313.

PHY 3315 ANALOG ELECTRONICS 4 cr. [3, 0, 3]
The basics of analog electronics will be discussed and explored in the lab. Topics covered include: Kirchoff's laws, Thevennin equivalent circuits, time varying signals, filters, diodes, transistors, and amplifiers. Prerequisite: PHY 2211. Co-requisite MA 3311.

PHY 3316 DIGITAL ELECTRONICS 4 cr. [3, 0, 3]
The basics of digital electronics will be discussed and explored in the lab. Topics covered include: binary systems, boolean algebra and logic gates, information registers, memory circuits, and digital microprocessors.

PHY 3317 PHYSICAL OPTICS 3 cr. [3, 0, 0]
Wave phenomena, electromagnetic theory of light, interference, diffraction, polarization and nonlinear optics. Prerequisite: MA 2233, MA 3311 and PHY 2211.

PHY 3318 THERMODYNAMICS 3 cr. [3, 0, 0]
An introduction to thermal physics and kinetic theory. Prerequisite: MA 2233, MA 3311 and PHY 2211.

PHY 3319 INTRODUCTION TO SOLID STATE PHYSICS 3 cr. [3, 0, 0]
A brief summary of the theory underlying the behavior of solids. Emphasis on transport theory, interaction of light and matter, semiconductor devices, superconductors and lasers. Prerequisite: PHY 3312, MA 2233, and MA 3311.

PHY 3321 SELECTED TOPICS I 3 cr. [3, 0, 0]
Any selected topic not sufficiently covered in a general course.

PHY 3322 SELECTED TOPICS II 3 cr. [3, 0, 0]
See PHY 3321 for course description.

PHY 4401 ELECTRICITY AND MAGNETISM I 3 cr. [3, 0, 0]
Foundations of electromagnetic theory including electrostatics, dielectric theory, magnetic properties. Prerequisite: MA 3311 and PHY 2211.

PHY 4402 ELECTRICITY AND MAGNETISM II 3 cr. [3, 0, 0]
Continuation of PHY 4401.

PHY 4407 INTRODUCTION TO QUANTUM MECHANICS 3 cr. [3, 0, 0]
An introduction to wave mechanical and axiomatic approaches with simple applications. Prerequisite: MA 2233, MA 3311 and PHY 3312.

PHY 4408 ATOMIC AND NUCLEAR PHYSICS 3 cr. [3, 0, 0]
Continuation of PHY 4407; physical applications of quantum mechanics to atomic and nuclear physics.

PHY 4415 PHYSICS RESEARCH I 3 cr. [0, 0, variable]
Undergraduate physics research project initiated by the student and completed in conjunction with a faculty member. Permission of the instructor required.

PHY 4416 PHYSICS RESEARCH II 3 cr. [0, 0, variable]
Undergraduate physics research project initiated by the student and completed in conjunction with a faculty member. Prerequisite: PHY 4415 and permission of the instructor.

PHY 4450 CURRENT SCIENTIFIC PHENOMENA 1 - 3 cr. [Variable]
This course permits students to take advantage of important temporary phenomena. Thus credit hours, period and time of presentation, and instructional personnel must vary. Selection of topics will be based upon intrinsic value and interest as well as importance for other courses. May be taken for 1 through 3 credits not to exceed 6 credits.

PHY 4497 INDEPENDENT STUDY 1 - 3 cr. [Variable]
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 - 3 credits at one time.

POLITICAL SCIENCE

***PSC 2201 INTRODUCTION TO AMERICAN GOVERNMENT 3 cr.**
An introductory course on the major institutions and processes of the U.S. political system. Topics discussed include the principles of governance, separation of powers, checks and balances, federalism, civil rights and liberties, and policymaking.

***PSC 2204 STATE AND LOCAL POLITICS 3 cr.**
Examines the institutions and process of state and local governments. Emphasizes the challenges facing subnational governments and the process and implementation of policymaking. Pennsylvania state government is a particular (but not exclusive) focus.

***PSC 2210 INTRODUCTION TO INTERNATIONAL RELATIONS 3 cr.**
Focuses on the relationships among nation-states in terms of goals and policies. Takes both a global and a regional perspective of the modern world. Topics discussed include the roles of international organizations, the causes and consequences of conflict, and the proliferation of nuclear, biological, and chemical weapons. Particular attention is given to current foreign policy issues facing the U.S.

***PSC 2212 INTRODUCTION TO COMPARATIVE POLITICS 3 cr.**
An introduction to the comparative study of political systems. Basic themes include the structure, processes, cultures, and policies of representative nations drawn from Europe, the former Soviet Union, and the developing world.

***PSC 3301 CIVIC ENGAGEMENT AND PARTICIPATION 3 cr.**
Examines the roles of social and political institutions in shaping political participation and voting behavior as well as how individuals acquire and express political knowledge, attitudes and opinions. Also addresses ways to promote civic engagement.

PSC (SOC) 3308 SOCIAL SCIENCE RESEARCH METHODS 3 cr.
Techniques and procedures for professing social science data. Ability to develop and evaluate research report and to judge how findings may be applied to improve political science practices are the primary goals of the course. Previous training in statistics strongly recommended.

PSC 3311 (PHL 3310) SOCIAL AND POLITICAL PHILOSOPHY 3 cr.
The analysis of philosophical and ethical arguments presupposed in social and political discourse. Topics include liberty and its limits, human rights, economic and social justice, the nature of political obligation and disobedience. Emphasis is on evaluating philosophical theories from both contemporary and historical sources. Prerequisites: PHL 2201, PHL 2202, or permission of instructor.

***PSC 3312 CANADA, MEXICO AND THE U.S. 3 cr.**
Explores the political systems of these three North American countries in a comparative perspective. Specific focus on political institutions, cultures, processes, policies in each country. Special attention to NAFTA.

PSC 3322 (PHL 3320) PHILOSOPHY OF LAW 3 cr.
An analysis of philosophical concepts and arguments presupposed in legal discourse and reasoning. Topics will include the nature of law and legal decision making, theories of justice, privacy, responsibility and punishment. Emphasis is on examining specific legal cases from both contemporary and historical sources. Prerequisites: PHL 2201, PHL 2202, or permission of instructor.

PSC 3325 (PSY 3325) ADVANCED LEADERSHIP 3 cr.
Provides students with an in-depth understanding of leadership issues and examines the applications of leadership principles to the college environment as well as other settings in the community. Students participate in a campus or community setting where they can study and apply these principles. Prerequisites: 49 credit hours or permission of instructor.

PSC 3328 INTERNATIONAL POLITICAL ECONOMY 3 cr.
Examines the relationships between politics and economics in the world. Emphasizes the growth and impact of globalization and interdependence. Special attention to the politics of economic development.

PSC 3330 (SWK) PUBLIC POLICY 3 cr.
Examines the public policy process from issue creation to policy adoption. Focuses on the politics of the policy making process.

PSC 3348 (PHL 3345) NORTH AMERICAN PHILOSOPHIES 3 cr.
Examines some of the major trends in philosophy in the U.S. and Canada, especially pragmatism and idealism. The course will focus on the relation of philosophy to other aspects of the North American experience, e.g., religion, education, economics, politics, and culture. Attention will be paid to the differences between Native America, European American, and African American traditions. PHL 2201, PHL 2202 or permission of instructor.

PSC 3357 (SOC) SOCIOLOGY OF EDUCATION 3 cr.
Introduces students to the major sociological and political theories and research in the area of education. Students will examine the history and structure of education in the U.S. and how the U.S. compares with other countries. The major focus of the course is to understand why students do and do not succeed in the U.S. educational system.

PSC 3366 (HST) TWENTIETH CENTURY EUROPE 3 cr.
A study of the political, economic, cultural, and international developments in Europe during the twentieth century. Particular attention is given to the two World Wars and their causes, the rise of mass culture, the Cold War, and the revolutions of 1989. Prerequisites: One history course or permission of instructor.

PSC 3377 (HST) LATIN AMERICAN POLITICS 3 cr.
Examines the political systems of the Latin American region in terms of historical, political, economic, and social aspects. Special attention to the idea of political development and change.

PSC 4401 TOPICS IN AMERICAN POLITICS 3 cr.
Examines in depth a specific aspect of the American political system, such as interest groups, political parties, the media, political campaigns and elections, or the judicial system.

***PSC 4402 PRESIDENT AND CONGRESS 3 cr.**
Examines the Executive and Congress as both governmental and political institutions, as well as the ongoing relationship between them.

PSC 4404 COURTS AND THE CONSTITUTION 3 cr.
Examines general principles of the U.S. constitutional system and the role of the judiciary in interpreting individual rights.

PSC 4412 TOPICS IN COMPARATIVE POLITICS 3 cr.
Examines in depth the government and politics of a particular country or group of countries (e.g. Canada, Communist systems, developing countries, the European Community).

PSC 4415 U S FOREIGN POLICY 3 cr.
Examines the content and process of U.S. foreign policy since 1900. Emphasis is on interests, objectives and strategies in key regions as well as domestic forces and constraints.

PSC 4430 GLOBAL DEMOCRATICIZATION 3 cr.
Examines the concepts related to democratic theory, early forms of democratic practices, the development of democracy in Europe and the U.S., and the spread of democracy worldwide. Special attention given to why and how countries become – or fail to become – democratic.

PSC 4450 INTERNSHIP 1 - 15 cr.
Designed to give actual experience in the work of an agency and an understanding of the agency's position in the community. Further, the intern should become aware of the agency's philosophy and goals, the formal and informal organization of the agency, and the role for the agency in the political system.

PSC 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 - 3 credits at one time.

PSYCHOLOGY

***PSY1101 INTRODUCTION TO GENERAL PSYCHOLOGY 3 cr.**
Designed to familiarize students with the application of scientific psychology to human life. Emphasis is on "normal" behavior and its antecedents. Includes the study of broad categories of human behavior through various psychological models.

PSY 1151 INTRODUCTION TO APPLICATIONS OF PSYCHOLOGY 3 cr.
Intended for students who have recently become or are seriously considering a psychology major. Will focus on assessing initial skill levels, career choices and planning, critical skills and experiences that may be required for entry into the workforce or graduate study; department policies and procedures; and writing style requirements of the American Psychological Association (APA).

PSY 1191 INTRODUCTION TO RESEARCH METHODS IN PSHCHOLOGY 3 cr.
A practical, skills-based introduction to research methods in psychology including the scientific method, experimental design, survey construction, data collection, and data analysis. Students will be exposed to a variety of computer programs including Excel, SPSS, and Survey Pro as well as information technology resources including PILOT, PsychInfo, EBSCOhost, and Web search engines. Prerequisites: PSY 1101 or PSY 1151.

PSY 2201 TESTS AND MEASUREMENTS IN PSYCHOLOGY 3 cr.
A study of the theory and techniques of behavior assessment, emphasizing computerized methods. Surveys psychological tests and their applications. Prerequisite: PSY 1191 or permission of instructor.

***PSY 2203 (SOC) TELEPHONE SURVEY RESEARCH 3 cr.**
Provides training in applied social research. Students are directly involved in the construction of an interview schedule, selecting a sample, conducting telephone interviews, coding and analyzing data, and writing a report.

PSY 2204 SURVEY RESEARCH METHODS 4 cr.
Introduces students to the scientific method of survey research by having them construct a questionnaire, administer it to a sample of participants, analyze the data using the Statistical Package for the Social Sciences, write a report using the APA format, and present the results at the Psychology Department Research Symposium. Prerequisite: PSY 1191 and PSY 2201, or permission of instructor.

***PSY 2210 PSYCHOLOGY OF FAMILY RELATIONS 3 cr.**
This survey course covers the psychological dynamics of the family as a unit, parent-child interactions, the effect of developmental events on the psychology of the family, divorce, single parent families, etc. Class discussion and videotapes are used to illustrate these concepts.

***PSY 2212 HUMAN SEXUALITY 3 cr.**
Provides a survey of scientific findings in the area of human sexual behavior, including topics of current interest and controversy as well as the traditional issues.

***PSY 2225 LEADERSHIP SKILLS 1 cr.**
This experiential workshop-style course is intended to help student leaders develop skills for effective leadership in campus and other settings. Skills addressed include having an appropriate attitude toward leadership values and ethics, communicating as a leader, working in small groups, managing conflict, leading in diverse environments, and building commitment and coalitions.

PSY 2250 EXPERIMENTAL DESIGN I 4 cr.
Studies the design of controlled experiments as well as quasi-experiments in the behavioral sciences. Prerequisite: PSY 1191 and PSY 2201, or permission of instructor.

***PSY 3290 LIFE SPAN DEVELOPMENT 3 cr.**
Surveys empirical findings regarding the interactive aspects of human behavioral development from conception through old age. Includes examination of major theories regarding physical, social, emotional, and mental development. Emphasizes normal development as it is experienced at each stage of human life span. Prerequisite: PSY 1101 or permission of instructor.

***PSY 3292 CHILD PSYCHOLOGY 3 cr.**
Surveys theories and empirical findings regarding the interactive aspects of human behavioral development from conception through pre-adolescence. Examines major findings regarding physical, social, emotional, and mental development. Emphasizes normal development as it is experienced at each stage of the childhood years before adolescence.

PSY 3300 HELPING SKILLS 3 cr.
Designed to help students develop effective listening and interpersonal skills for conducting counseling. The primary emphasis of this course is on (1) the application of counseling and psychological theory to actual casework and (2) the development of counseling skills through observing and conducting peer counseling sessions. Prerequisite: PSY 1101 and upper division standing.

PSY 3301 THEORIES OF COUNSELING 3 cr.
Considers the major theories of psychological treatment and behavior change. The major theories covered include: psychodynamic, humanistic, behavior, cognitive, and family systems therapies. Emphasis is placed on student understanding of conceptual bases of dominant counseling models. Prerequisite: PSY 1101 and upper division standing.

PSY 3310 SOCIAL PSYCHOLOGY 3 cr.
Covers the individual aspects of social behavior. Attention is focused on problems in perception, thinking, and motivation. The following topics are examined: theories of person perception, attitude formation, personality structure, motivational determinants of group membership and social conformity, social roles and leadership. Prerequisite: PSY 1101.

PSY 3311 INTRODUCTION TO SMALL GROUP PROCESS 3 cr.
Basic principles of small group process are examined through didactic and experiential approaches. Applications in various settings are examined. Prerequisite: PSY 1101.

PSY 3312 DEVIANT BEHAVIOR AND SOCIAL PROCESS 3 cr.
Psychological theories of deviant behavior are studied. Major areas include: sexual deviations, prostitution, juvenile delinquency, suicide, obesity, drug addiction, etc., and the various treatment modalities. Prerequisite: PSY 1101.

PSY 3315 HUMAN RESOURCE MANAGEMENT I 3 cr.
Introduces the field of Human Resource Management (HRM). Covers strategic management and HRM, the legal context, measurement of job content, recruiting, selection, and human resource development. May be taken before or after PSY 3316. Prerequisite: take PSY 1101.

PSY 3316 HUMAN RESOURCE MGT II 3 cr.
Continues coverage of the field of Human Resource Management (HRM). Topics include performance management, terminations, workplace safety and health (OSHA), workplace violence, health information privacy issues, job design, organization development, and international HRM. May be taken before or after PSY 3315. Prerequisite: PSY 1101.

***PSY 3321 ADOLESCENT PSYCHOLOGY 3 cr.**
An overview of research, theory, and trends in the study of adolescence as a stage in human development from the onset of biological pubesence to the transition to young adulthood. Consideration of the multiple and interacting influences on adolescent development and behavior is a major focus of the course. Prerequisite: PSY 1101.

PSY 3324 ADULT DEVELOPMENT AND AGING 3 cr.
Addresses the study of trends in human development from the transition to early adulthood, through senescence, to death. Examines the social, biological, cognitive, and personality components of the aging process. Emphasizes variations in psychological adaptations to personal changes and role transitions during the adult years. Prerequisite: PSY 1101 or permission of instructor.

PSY 3325 ADVANCED LEADERSHIP 3 cr.
Provides students with an in-depth understanding of leadership issues and examines applications of leadership principles to the college environment as well as other settings in the community. Students participate in a campus or community setting where they can study and apply these principles. Prerequisite: 49 credit hours completed or permission of the instructor.

PSY 3330 DRUGS AND BEHAVIOR 3 cr.
Examines the history, use, and abuse of psychoactive drugs. The course focuses on the neurobiological basis, clinical applications, side effects, and abuses of a variety of drugs used for treating anxiety, mood, and thought disorders, as well as those drugs commonly abused, such as sedatives, stimulants, opiates, and hallucinogens. Prerequisite: PSY 1101.

PSY 3332 PSYCHOLOGY OF STRESS MANAGEMENT 3 cr.
This course provides a current overview of stress and stress-related dysfunction. Techniques for managing stress are emphasized through demonstration and student participation. Prerequisites: PSY 1101 and 49 credit hours completed, or permission of instructor.

PSY 3350 EXPERIMENTAL I: LEARNING 3 cr.
Surveys theories, research methodologies, and findings in the area of learning. Prerequisite: PSY 2250 or 2204, or permission of instructor.

PSY 3350L EXPERIMENTAL I: LEARNING LABORATORY 1 cr.
Provides a working knowledge of research methodology and skills in psychological investigation. Students design and conduct research under instructor supervision. Co-requisite: PSY 3350.

PSY 3355 HEALTH PSYCHOLOGY 4 cr.
This course examines relationships that exist between our behavior, our environment, and health and disease. Specific areas of review include the psychology of physical activity, smoking cessation, weight-control, stress-disease links with cancer and cardiovascular disease, and models of health care seeking behaviors. Laboratory exercises further explore aspects of health and disease affected by social and behavioral conditions. Prerequisite: PSY 2204 or PSY 2250 , or permission of instructor.

PSY 3391 ABNORMAL PSYCHOLOGY 3 cr.
Provides a general introduction to the field of abnormal psychology. Major models of psychopathology and the causes and symptoms of abnormal thinking and behavior are considered. Prerequisite: PSY 1101.

PSY 4406 INTRODUCTION TO CLINICAL NEUROPSYCHOLOGY 3 cr.
This course provides an introduction to the field of clinical neuropsychology including the study of the human brain and a variety of neurological disorders. Students explore a variety of different disorders and will be introduced to neuropsychological assessment techniques. This course is particularly useful for pre-med, nursing, biology, and psychology students. Prerequisites: PSY 1101 or BSC 1104, or permission of instructor and 49 credit hours completed.

PSY 4415 LABOR RELATIONS 3 cr.
Labor relations are part of the organizational landscape in manufacturing, service, government, and professional sports. This course examines the history of unions, the organizing process, roles of both parties in contract negotiation and administration, strikes and conflict resolution, grievances, and arbitration processes. Prerequisite: take PSY 1101.

PSY 4416 COMPENSATION 3 cr.
Introduces participants to current issues and techniques in compensation and benefits. Coverage includes the legal context for compensation, job evaluation and point factor systems, construction of compensation surveys, pay for performance systems, workers' compensation, Social Security, unemployment insurance, ERISA and retirement plans and issues in executive compensation. The course emphasizes conceptual, social, and practical issues related to the development an administration of compensation systems. Prerequisite: PSY 1101.

PSY 4421 DEATH AND DYING 3 cr.
Provides an overview of the psychological aspects of death and dying in our society. Topics include attitudes toward and preparation for death, the terminally ill patient, funeral rituals and burial, mourning and grief, and suicide and euthanasia. Classroom material is supplemented by the student's self-exploration and writing on feelings, attitudes, and beliefs about death. Prerequisite: PSY 1101.

PSY 4422 PSYCHOLOGY OF WOMEN 3 cr.
Designed to introduce students to the myriad factors influencing the development of girls and women in a variety of cultures and societies. Areas covered include feminist scholarship and research; gender socialization, women's biology and health; sexuality, relationships and family; and work, career, and power issues. Students taking the course for graduate credit (PSY 5522) are required to complete an independent research project. Prerequisite: PSY 1101.

PSY 4430 THEORIES OF PERSONALITY 3 cr.
Considers major personality theories ranging from psychoanalytic to humanistic and behavioral models. Papers and discussion concentrate on examining merits and limitations of various theories. Prerequisites: PSY 1101 and 49 credit hours completed.

PSY 4441 PSYCHOLOGY AND LAW 3 cr.
Introduces the role of psychologists in the legal system. Assignments examine and evaluate assumptions made by the legal system about psychological and scientific issues. This approach serves as a framework for considering specific psycho-legal issues. Students study issues pertaining to jury trials, the insanity plea, punishment and sentencing issues, the rights of children, and other important questions. Prerequisites: PSY 1101 and 49 credit hours completed.

PSY 4445 ADVANCED COUNSELING TECHNIQUES 3 cr.
Provides advanced training in counseling skills for students in the helping professions (nursing, social work, counseling/clinical psychology, criminal justice, etc.). Emphasis placed on diagnosis and treatment of clients requiring long-term intervention. Special emphasis will be placed on diagnosis and treatment of personality disorders. Prerequisites: PSY 3391 and 3300 or permission of instructor.

PSY 4460 PHYSIOLOGICAL PSYCHOLOGY 3 cr.
Emphasizes physiological aspects of behavior through knowledge of neurological structure and function. Prerequisite: PSY 2204 or 2250 or permission of instructor.

PSY 4460L PHYSIOLOGICAL PSYCHOLOGY LABORATORY 1 cr.
Provides a working knowledge of research methodology and skills in psychological investigation. Students design and conduct research under instructor supervision. Corequisite: PSY 4460. Prerequisite: PSY 2204 or 2250.

PSY 4462 BEHAVIOR MODIFICATION 3 cr.
Provides an introduction to a variety of techniques for altering behavior based on learning principles. Prerequisite: PSY 1101.

PSY 4490 SENIOR SEMINAR 3 cr.
In this course senior psychology majors explore their strengths and weaknesses and review the knodwledge and skills they have acquired as a psychology major. Students are directed toward understanding how their skill sets and personal preferences may be successfully applied after completion of the B.S. degree (work or graduate school). Additionally, students submit a portfolio of their work while at Mansfield and complete a research-based seminar paper. Prerequisite: Senior standing or permission of instructor.

PSY 4495 INTERNSHIP 6 - 12 cr.
Provides practical experience and beginning professional skills to selected students. This is an internship that will focus on applied skills, community service, or research work in settings appropriate to student's interests and curriculum, including metal health and other human service programs, hospitals, human resource offices, and industrial or governmental agencies. The goal is no relate theoretical learning to practical applications. Prerequisite: At least junior standing as a psychology major and approval of department faculty. May be taken for 6 through 12 credits.

PSY 4496 RESEARCH APPRENTICESHIP 6 - 15 cr.
Provides students with intensive experiences in empirical research under close supervision. Qualified students become involved in ongoing research projects, working with experienced researchers. Students are encouraged to serve their apprenticeship at other campuses or institutional settings. May be taken for 6 through 15 credits.

PSY 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 – 3 credits at one time.

REGIONAL PLANNING

***RPL 1102 INTRODUCTION TO REGIONAL PLANNING 3 cr.**
Examines regional planning as a tool for shaping the future man-made and natural environment. Introduces man/land relationships that affect community well-being, the tools used by government in managing these relationships for public benefit; and programs, politics, and activities required in recent planning legislation.

RPL 3342 LAND-USE POLICY 3 cr.
An interpretive synthesis of the precepts and concepts of land-use that encourage and discourage geographic patterns on a changing landscape. Familiarizes the student with the economic, social, and political processes that are especially important for planning which is intended to move regions toward a particular goal. Prerequisite: RPL 1102.

RPL 3380 PLANNING SEMINAR 3 cr.
Practical application of techniques learned in previous courses to typical planning problems.

RPL 4496 PLANNING INTERNSHIP 3 - 12 cr.
Provides experience in regional or corporate planning offices to apply knowledge and skills of planning under the supervision of qualified planners. Observations, conferences, and an evaluation is made by the supervisory agency. All internships will be graded S or U – they do not affect your Q.P.A.

RPL 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 - 3 credits at one time.

RESPIRATORY THERAPY

RTH 1101 FUNDAMENTALS OF RESPIRATORY CARE I 3 cr.
Examines the scientific principles underlying the safe administration of medical gases and aerosols to patients in the hospital setting. Prerequisites: BSC 1121, MA 1128, each with a grade of C minus (C-) or better and a cumulative grade point average of 2.0.

RTH 1102 FUNDAMENTALS OF RESPIRATORY CARE II 4 cr.
Classroom instruction and laboratory practice of fundamental respiratory care assessment and therapeutic procedures. Assessment topics include: chest physical examination, chest x-rays, electrocardiograms, and bedside pulmonary function tests. Therapeutic topics include: oxygen and aerosol therapy, hyperinflation therapies, chest physical therapy, airway management, and cardiopulmonary resuscitation. Prerequisites: RTH 1101, BSC 1121, and MA 1128, each with a grade of C minus (C-) or better and a cumulative grade point average of 2.0.

RTH 1111 PULMONARY FUNCTION TESTING 2 cr.
This course covers lung function in health and disease. Techniques used to measure lung function are discussed and demonstrated. The student is instructed in the interpretation of pulmonary function tests. Prerequisites: BSC 1121. Corequisite: RTH 1101.

RTH 1112 ARTERIAL BLOOD GASES 1 cr.
This course covers the sampling and analysis of arterial blood and the interpretation of test results. Majors only. Prerequisites: RTH 1101, BSC 1121, and CHM 1101.

RTH 1199 CLINICAL PRACTICUM I 2 cr.
Introduction to the clinical practice of respiratory care. Provides experience in the administration of oxygen, aerosols, hyperinflation therapies, chest physical therapy, and artificial airway care. Examines the fundamentals of arterial blood gas sampling and analysis. Prerequisite: RTH 1101, BSC 1121 and MA 1128 each with a grade of C (C-) or better and a cumulative grade point average of 2.0. Concurrent registration in RTH 1102.

RTH 2200 CLINICAL PRACTICUM II 5 cr.
Designed to achieve competence in the administration of routine respiratory therapy modalities and competence in arterial blood gas sampling and analysis. Students will accompany pulmonary physicians on patient rounds and rotate through other clinical areas of the hospital. Prerequisite: RTH 1102 and 1199.

RTH 2204 PHARMACOLOGY 2 cr.
Examines the action and uses of pharmacologic agents. Emphasis is on drugs used in the diagnosis and treatment of cardiac and pulmonary disease, and includes the calculation of dosages and solutions.

RTH 2207 PULMONARY DISEASE 2 cr.
Introduction to common pulmonary disorders and their management. Topics include chronic obstructive pulmonary disease, restrictive pulmonary disorders, infectious pulmonary disease, pulmonary vascular disease, pulmonary pathology due to trauma, neonatal cardiopulmonary disease, and pediatric pulmonary disease. Prerequisite: BSC 1122.

RTH 2208 PERINATAL/PEDIATRIC RESPIRATORY CARE 2 cr.
Examines respiratory physiology and pathophysiology relevant to the newborn and pediatric patient. The principles, techniques, and equipment relied upon in providing respiratory care to this age group are identified and demonstrated. Prerequisite: RTH 1102.

RTH 2209 CLINICAL PRACTICUM III 3 cr.
Application of respiratory care to the patient in the critical care unit. Emphasis is on the management of adult and pediatric patients requiring mechanical support of ventilation. Prerequisite: RTH 2200 and concurrent registration in RTH 2211.

RTH 2210 CLINICAL PRACTICUM IV 5 cr.
Continuation of RTH 2209. Designed to achieve competence in the performance of all critical care procedures performed by the respiratory therapists. Prerequisite: RTH 2209 and concurrent registration in RTH 2212.

RTH 2211 MECHANICAL VENTILATION 4 cr.
Classroom instruction and laboratory practice in the management of patients requiring continuous mechanical support of ventilation. Prerequisite: RTH 1102.

RTH 2212 ADVANCED CARDIOPULMONARY CARE 3 cr.
Examines cardiovascular problems, advanced cardiopulmonary monitoring techniques, special procedures, pulmonary rehabilitation, and home care. Prerequisite: RTH 2211.

RUSSIAN STUDIES

RUS 1101 INTRODUCTORY RUSSIAN I 3 cr.
Oral alphabet drill, written alphabet drill, study of specific letters and sounds, pronunciation and orthography, personal pronouns, present tense, first conjugation verbs, accusative of personal pronoun questions, indirect questions and negation, present tense, second conjugation verbs, reflexive verbs, gender of nouns, accusative of nouns (direct objects), verbs of going, months and years with numbers, prepositional case of nouns, possessive pronouns/adjectives. Prerequisite: proven foreign language ability.

RUS 1102 INTRODUCTORY RUSSIAN II 3 cr.
Dative case of pronouns, double negatives, conjunctions. Noun plurals, stress shift in plurals, geographical information, expressions with dative, demonstrative pronouns, adjectives, superlative degree, past tense, future tense, accusative of adjectives/ possessive pronouns, relative pronouns, partitive genitive, instrumental case with prepositions. Prerequisite: RUS 1101.

RUS 2201 INTERMEDIATE RUSSIAN I 3 cr.
The perfective and imperfective aspect of verbs, dates and the negative case, dative case of nouns, adjectives and pronouns, instrumental case without prepositions, relative pronouns, partitive genitive, passive voice, instrumental case with prepositions, masculine nouns with stressed endings, genitive plural, adjectives modified by numbers, dative, instrumental and prepositional plural, indefinite pronouns, adjectives and adverbs, comparative degree of adjectives and adverbs, reading of simple texts. Prerequisite: RUS 1101 and 1102 or equivalent.

RUS 2202 INTERMEDIATE RUSSIAN II 3 cr.
Conditional, subjunctive mood, verbs of going, running, taking, bringing, carrying, leading, prefixed verbs of motion, additional information about perfective/imperfective verbs, verbal adverbs, declension of last names, participles: present active, past active, present passive, past passive, review of semesters and previous grammar, further reading of simple Russian texts. Prerequisite: RUS 1101 and 1102 or equivalent.

RUS 3370 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
Open to students who wish to study abroad. Plans for foreign study should be presented at least one semester prior to departure. Number of credits granted will be based upon validated credentials presented to the department. The student should register for RUS 3370-3380 prior to departure. Students should consult the regulations for study-abroad available in the Office of the Provost/Vice President for Academic Affairs.

RUS 3371-3380 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
See RUS 3370 for course description.

SCIENCE

Weekly hour information [lecture, recitation, laboratory]

***SCI 1104 FORENSIC SCIENCE 3 cr. [2, 0, 2]**
Forensic science is the application of science to law. this course will study the collection and identification of materials used as evidence. This will include an understanding of their physical and chemical nature and origins at the crime scene. Further, the student will utilize the collected evidence to suggest scenarios for crime scenes.

***SCI 1107 PHYSICAL SCIENCE I 3 cr. [2, 0, 2]**
An introduction to astronomy, forces and motion, and energy. Students will construct laboratory apparatus from readily available sources to make physical measurements. This general education course is particularly suitable for elementary education majors.

***SCI 1108 PHYSICAL SCIENCE II 3 cr. [2, 0, 2]**
An introduction to the atom, chemistry, electricity and magnetism, sound, and light. Students will construct laboratory apparatus from readily available sources to make physical measurements. This general education course is particularly suitable for elementary education majors.

SCI 3270 NANOTECH LAB EXPERIENCE 18 cr.
An intensive nanotechnology laboratory experience. Topics covered include: material safety and equipment; basic nanotechnology processes; thin film deposition; lithography; materials odification; and device characterization, packaging, and testing. Prerequisites: PHY-3312, PHY-3315, PHY-3316.

SCI 4400 SPECIAL TOPICS IN SCIENCE EDUCATION 1 - 3 cr. [Variable]
This is a course for one to three credits for practicing teachers and for graduate and undergraduate students who are enrolled in education programs. The course may focus on one or more physical science topics, but content, activities, and methods will be treated with equal importance for a variety of classroom settings. The information, ideas, and activities obtained will be timely and useful to teachers in their classrooms.

SOCIOLOGY

***SOC 1101 INTRODUCTION TO SOCIOLOGY 3 cr.**
Introduction to the basic concepts, premises, and techniques involved in the scientific approach to the study of human societies. Analysis is made of selected aspects of social behavior at interpersonal, intergroup, and societal levels. Global perspectives are explored.

***SOC 1121 CONTEMPORARY SOCIAL PROBLEMS 3 cr.**
A survey of the major social problems in contemporary American society with special attention to the major paradigms (conflict, functionalist, interactionist) that guide the formation of social policy. Special focus is on social and economic justice and populations at risk.

SOC 2200 AMERICAN MINORITIES 3 cr.
An investigation of the individual and group processes by which the U. S. has been peopled and of the resulting racial, religious, and ethnic communities. Consideration will be given to the similarities and differences in the values and experiences of a variety of groups and to the relative strength of tendencies toward assimilation and toward preservation of distinguishing characteristics.

***SOC 2203 (PSY 2203) TELEPHONE SURVEY RESEARCH 3 cr.**
Provides training in applied social research. Students are directly involved in constructing an interview schedule, selecting a sample, conducting telephone interviews, coding and analyzing data, and writing a report.

***SOC 2232 AMERICAN FAMILY SYSTEMS 3 cr.**
An examination of the diversity of marriage and family life in American society as reflected in changing social conditions and social policies. Focus is given to social and economic justice and populations at risk, including the identification and function of values, norms, and codes relevant to marriage and family decision making.

***SOC 3300 MEN IN SOCIETY 3 cr.**
Survey and analysis of traditional male sex-roles, as well as the evolution of new societal definitions of masculinity and the 'New' Men's Movement. Male/male and male/female relationships and communication are also critiqued and evaluated. The emphasis throughout is upon student application of critical thinking skills to appropriate written and media sources of sociological information.

SOC 3301 ORGANIZATIONAL BEHAVIOR 3 cr.
Examines the social dimensions of work organizations including formal and informal interaction patterns, leadership, and organizational culture.

SOC 3305 SOCIOLOGY OF RELIGION 3 cr.
Analysis of the interrelationships between religion and other aspects of society, particularly with reference to the problems of order and change.

***SOC 3306 INTERRACIAL SEMINAR 3 cr.**
Seminar introduces students to those sociological concepts relevant to race relations to facilitate interracial communication, to provide interracial understanding, and to encourage appreciation of cultural pluralism.

SOC 3307 SOCIAL RESEARCH I: RESEARCH DESIGN DATA COLLECTION 3 cr.
Examines the basic relationship of research with social theory, the challenges of defining a problem for study, the selection of an appropriate sample, and the challenges faced in using various techniques to collect data from a sample. Careful consideration is given to the ethical issues that arise in the conduct of research.

SOC 3308 (PSC 3308) SOCIAL RESEARCH II: ANALYSIS, INTERPRETATION, AND APPLICATIONS 3 cr.
Techniques and procedures for processing social science data. Ability to develop and evaluate research reports and to judge how findings may be applied to improve social work practices are primary goals of the course. Previous training in statistics strongly recommended.

***SOC 3322 SOCIOLOGY OF AGING 3 cr.**
Analyzes the influence of social interaction upon the process, stages, and problems of aging, particularly of older age. Student-conducted oral history is utilized not only as a catalyst for intergenerational understanding and respect, but also as a therapeutic social work technique designed to enhance the self-image of older people by having them look back over their personal histories and through that process help them to meet the human need to attain a self-appreciation of the validity and significance of their lives. Dual listed with 5522.

SOC 3340 VISUAL SOCIOLOGY 3 cr.
Explores social relations with the camera. Examines the use of photographs as tools of inquiry, documentation, and data for social analysis. Studies problems related to cultural features affecting visual perception and reportage.

SOC 3350 SELECTED TOPICS SEMINAR 1 - 6 cr.
Review of a specialty area in anthropology, sociology or the study of a problem from an interdisciplinary position. Prerequisite: upper division standing and permission of instructor. May be taken for one through six credits.

SOC 3357 SOCIOLOGY OF EDUCATION 3 cr.
This course is designed to introduce students to the major sociological theories and research in the area of education. Students will examine the history and structure of education in the US and how the US compares with other countries. Understanding who makes it and who doesn't in the US education system and why, is the major focus of the course.

***SOC 4415 AMERICAN VALUES IN CONFLICT 3 cr.**
Analyzes American values and values conflicts from a sociological perspective, placing such values and conflicts within a context of ideological orientation, ethnic/racial and social class diversity, group interaction, socio-cultural change, and societal policy.

SOC 4441 ORGANIZATIONAL INTERNSHIP 6 - 15 cr.
Provides experience in the regular activities of a business, government agency, or social service organization. Students will prepare an analysis of the organization=s role system and its real or potential area of stress. May be taken from six through fifteen credits. Prerequisite: permission of instructor; SOC 3301 strongly recommended.

SOC 4480 SOCIOLOGICAL THEORY 3 cr.
An examination of classical and contemporary sociological theorists: Karl Marx, Max Weber, Emile Durkheim, C. Wright Mills, Erving Goffman and Amitai Etzioni. Each theoretical perspective is critically reviewed. Prerequisite: Twelve semester hours of Sociology courses or instructor approval.

SOC 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

SPANISH

SPA 1101 INTRODUCTORY SPANISH I 3 cr.
For students who have not previously studied Spanish. Fundamentals of grammar, intensive drill in pronunciation, comprehension, and speaking. Two hours language laboratory required weekly.

SPA 1102 INTRODUCTORY SPANISH II 3 cr.
Continuation of 1101, two hour language laboratory weekly. Prerequisite: SPA 1101 or equivalent.

SPA 2201 INTERMEDIATE SPANISH I 3 cr.
Continuation of 1102, grammar review. Prerequisite: SPA 1102 or equivalent.

SPA 2202 INTERMEDIATE SPANISH II 3 cr.
Continuation of 2201. Prerequisite: SPA 2201 or equivalent.

SPA 2205 PRONUNCIATION AND PHONETICS 1 cr.
Analysis of Spanish phonetics. Emphasizes oral drills for English-speakers seeking to acquire Spanish accent. Prerequisite: SPA 1102.

SPA 3300 SPANISH CONVERSATION 3 cr.
Practice in oral self-expression and comprehension. Selected topics assigned for each class. Prerequisite: SPA 2202 or permission of instructor.

SPA 3305 SPANISH CONVERSATION AND COMPOSITION 3 cr.
Intensive development of oral expression and self-expression in writing for students desiring a higher level of oral fluency and proficiency in writing. Class is conducted in Spanish. Prerequisite: SPA 2202 or permission of instructor.

SPA 3306 THE CULTURE AND CIVILIZATION OF SPAIN 3 cr.
Examines the history of customs and institutions of Spain. Emphasizes the effect of history on general culture and customs of present-day Spain. Prerequisite: SPA 2202 or equivalent.

SPA 3307 THE CULTURE AND CIVILIZATION OF LATIN AMERICA 3 cr.
Studies the history, customs and politics of Latin America. Emphasizes general characteristics: race, religion, life style, etc. Prerequisite: SPA 2202 or equivalent.

SPA 3320 ADVANCED SPANISH STRUCTURE 3 cr.
Study and application of Spanish structural patterns; emphasizes syntax. Prerequisite: SPA 2202 or equivalent.

SPA 3330 SURVEY OF SPANISH LITERATURE I 3 cr.
Examines the most important writers of Spain through 17th century; attention given to literary movements, historical backgrounds, style and form. Prerequisite: SPA 3300, 3305, 3306, 3307, 3320 or permission of instructor.

SPA 3331 SURVEY OF SPANISH LITERATURE II 3 cr.
Continuation of 3330. Prerequisite: SPA 3300, 3305, 3306, 3307, 3320 or permission of instructor.

SPA 3340 SPANISH-AMERICAN LITERATURE I 3 cr.
Examines the major Spanish-American writers and movements through Realism and Naturalism. Prerequisite: SPA 3300, 3305, 3306, 3307, 3320 or permission of instructor.

SPA 3341 SPANISH-AMERICAN LITERATURE II 3 cr.
Continuation of 340 from Modernism to the present. Prerequisite: SPA 3300, 3305, 3306, 3307, 3320 or permission of instructor.

SPA 3370 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
Open to students who wish to continue the study of Spanish abroad. Plans for foreign study should be presented at least one semester prior to departure and should be approved by the department chairperson. Number of credits granted will be based upon validated credentials presented to the department. The student should register for SPA 3370-3380 prior to departure. Students should consult the regulations for study-abroad available in the Office of the Provost/Vice President for Academic Affairs.

SPA 3371-3380 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
See SPA 3370 for course description.

SPA 4400 SENIOR SEMINAR 2 cr.
Selected topics in Spanish and Latin American Literature.

SPA 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 - 3 credits at one time.

SPECIAL EDUCATION

SPE 1101 INTRODUCTION TO SPECIAL EDUCATION 3 cr.
Examines the nature and need of persons who are exceptional in emotional, social, physical, and intellectual development, including the gifted and talented. Discussions will include career opportunities, social issues, current trends in Special Education, rehabilitation and related settings. Observation in Special Education settings will be available.

SPE 3270 MENTALLY AND PHYSICALLY DISABLED 3 cr.
Introduction to etiology, characteristics, education, management, and laws pertaining to children and adults with mental and physical disabilities. Prerequisite: SPE 1101 or permission of instructor.

SPE 3275 INCLUSION OF DIVERSE LEARNERS 3 cr.
This course is designed to prepare teacher candidates to teach in schools which are becoming diverse. Issues, which include gender, social class, race, ethnicity, disabilities and religion, will be discussed. The teacher candidate will develop skills in teaching pedagogy, assessment curriculum development and teacher student relationships.

SPE 3280 CHILDREN IN NEED OF EMOTIONAL SUPPORT 3 cr.
Examines the etiology of emotional disturbance with concentration on the characteristics, diagnostic procedures, therapy, educational strategies, instructional materials, and relevant research in relation to the education of emotional/behavioral disturbance. Includes observation and child study experience.

SPE 3290 LEARNING DISABILITIES 3 cr.
Introduction to the definition, identification, etiology, and epidemiology of learning disabilities with a particular emphasis on methods of differential diagnosis and educational procedure. Remediation strategies, classroom management, and research will be studied.

SPE 3300 CURRICULUM DEVELOPMENT ADJUSTMENT 3 cr.
Examines curriculum development, adjustments, methods, and materials in Special Education. Studies IEP goals, school organization, grouping, planning unit instruction, teaching-learning process, evaluating pupil progress, and parent and other agency relationships. Prerequisite: SPE 3270 or permission of instructor.

SPE 3310 COMMUNICATION DISORDERS 3 cr.
Introduction to the nature of specific speech, hearing and language disorders.

SPE 3320 GIFTED AND TALENTED 3 cr.
Considers the characteristics of the gifted and talented. Introduces teaching procedures, program types, curriculum materials, and research.

SPE 3321 METHODS FOR THE GIFTED 3 cr.
Examines curriculum, methods, materials, and resources in the education of the gifted and talented. Includes analysis and demonstration of leading materials and strategies. Case studies, field visits, and teaching simulations are provided.

SPE 3322 STRATEGIES FOR ADOLESCENTS WITH MILD DISABILITIES 3 cr.
A study of cognitive and metacognitive strategies with emphasis on how to assess, plan, design, and implement strategies for adolescent students with mild disabilities, and implement strategies for adolescent students with mild disabilities. Strategy instruction will include the areas of reading, writing, mathematics, study skills, social skills, transition, and employment.

SPE 3330 CULTURAL DIVERSITY IN SPECIAL EDUCATION 3 cr.
Studies the definitions, causes, characteristics, and education of children and youth from multi cultural environments. Considers problems in social-psychological context with implications for programs of improvement and research.

SPE 3351 BEHAVIOR MANAGEMENT 3 cr.
Studies the implications of behavior theory as classroom teaching techniques. Conditioning of both academic skills and non-academic behaviors on an individual and group is stressed. Direct experience in modifying the behavior of exceptional children will be arranged.

SPE 3370 EARLY CHILDHOOD DISABILITIES 3 cr.
Examines the nature, needs, and education of young children with disabilities in infant-toddler, preschool, and primary programs. Emphasis will be on identification, multi-disciplinary educational planning, parent counseling, agencies, and services. Coverage will include special classes, resource rooms, and mainstream education including curriculum, methods, and materials plus the roles of other professionals. Observations and child studies are required. Prerequisite: permission of instructor.

SPE 3375 RESIDENTIAL FACILITIES FOR THE DISABLED 3 cr.
Explores the many types of residential facilities, from institutions to independent living, used to house the people with disabilities. The exploration will include philosophies, regulations, policies, and standards applied to facilities. Client programming, staff training, and supportive community agency services will be examined.

SPE 3377 ADULT DISABILITIES 3 cr.
Covers a broad range of disabilities in adulthood including physical, mental, and learning disabilities, including emotional problems. Emphasis will be on current program trends, issues, services, research on adult learning and adjustment, and implications for the helping professions.

SPE 3380 ASSESSMENT IN SPECIAL EDUCATION 3 cr.
Provides students with the skills necessary to diagnose and correct learning problems. Special attention is given to considerations related to the selection of appropriate formal tests (e.g., test bias). Selective diagnostic instruments are examined. Prerequisite: SPE

SPE 3390 METHODS FOR INDIVIDUALS WITH MILD DISABILITIES 3 cr.
Provides organizational procedures, curriculum practices, methods and techniques used in educating mildly handicapped students K-12 in need of academic learning support. Emphasis is on direct teaching, collaborative practices, transitional planning, and curriculum adaptation. Prerequisite: SPE 1101 and SPE 3300.

SPE 3391 THE EXCEPTIONAL PERSON IN THE UNITED STATES AND EUROPE - A COMPARATIVE 3 cr.
Designed to provide a comparative study of the U.S. and Europe of the care, treatment, and rehabilitation of exceptional persons from birth through adulthood. Study involves contact with families of exceptional individuals and professionals providing services on both continents.

SPE 4400 STUDENT TEACHING 12 cr.
(By arrangement). Opportunity to apply knowledge and skills acquired in professional preparation. Accomplished by a field experience under the supervision of master teachers in two different special classes in university established centers. Observations and conferences are scheduled by the departmental supervisor.

SPE 4407 TRANSITION TO ADULT LIFE 3 cr.
Students examine their basic assumptions about adult life and learn about vocational training, employment services, life skills, educational programs, advocacy and services for adults with disabilities.

SPE 4420 OBSERVATION AND PARTICIPATION - SPECIAL ED 3 cr.
Observation and participation in classroom setting. Emphasizing teaching/learning process, selecting, organizing, and presenting lessons and materials. Projects and demonstrations required.

SPE 4430 TECHNOLOGY IN SPECIAL EDUCATION 3 cr.
Introduction to and overview of the possibilities provided by microcomputers in assisting the exceptional learner. Provides initial skill and knowledge in using the microcomputer. Exposure will be made to available resources, selection and evaluation of course ware, adaptive devices, curriculum, correlation, and classroom integration.

SPE 4440 METHODS FOR INDIVIDUALS WITH MODERATE/SEVERE DISABILITIES 3 cr.
Study of the nature and needs of school age children with moderate and severe handicapping conditions that include cognitive, health and/or physical impairments. Focus is on the educational and vocational needs of these children from a content base which includes identification, assessment, and remediation practices which are coupled with supportive measures, materials, and techniques. The use of instructional adaptations such as assistive technology will be stressed. Prerequisite: SPE 1101 and SPE 3300.

SPE 4450 INTERNSHIP 12 cr.
A supervised field experience in a professional setting serving individuals with disabilities.

SPE 4460 PROFESSIONAL SEMINAR 2 cr.
Designed to develop and refine the professional competencies of the special education major prior to the field experience and/or accepting a professional position. Coverage includes general orientation to the profession, current issues, school organization and administration, techniques for seeking a professional position, the scope of the field of special education, and professional responsibilities.

SPE 4480 SPECIAL EDUCATION WORKSHOPS 1 - 6 cr.
Special workshop/seminars focusing on contemporary trends, topics, and problems in the field of special education. May be taken for one through six credits.

SPE 4481-4485 SPECIAL EDUCATION WORKSHOPS 1 - 6 cr.
See SPE 4480 for course description.

SPE 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 - 3 credits at one time.

SOCIAL WORK

SWK 1101 HUMAN SERVICES 3 cr.
Introduces students to the field of Human Services. Examines the multiple disciplines involved in Human Services with a focus on the social work profession. Familiarizes students with the history of social work, the various professional roles, and the emergent issues, strengths, needs and trends that affect both the private and public sectors involved in Human Services.

SWK 2201 AFRICAN-AMERICANS: AN INCLUSIVE VIEW 3 cr.
Provides an opportunity for students to gain an awareness and understanding of the important contributions to society made throughout history by persons of color.

SWK 2247 SOCIAL WORK PROGRAM ORIENTATION 1 cr.
Acquaints students with the demands of professional social work education. Examines the structure of the social work program in relationship to the required curriculum designed to prepare students for beginning generalist social work practice.

SWK 2248 SOCIAL WORK VALUES AND ETHICS 1 cr.
Integrates content about values and principles of ethical decision making as presented in the National Association of Social Workers' Code of Ethics. Provides students with the opportunity to be aware of personal values and to analyze ethical dilemmas and the ways in which these affect practice, services, and clients.

SWK 2249 PROFESSIONAL COMMUNICATION SKILLS 1 cr.
Familiarizes students with the use of communication skills in professional social work, including written, verbal, and non-verbal communication. Exposes students to APA style writing, library resources, and an introduction to verbal and non-verbal communication with clients. Requires the completion of an early field education experience.

SWK 2251 INTRODUCTION TO SOCIAL WORK 3 cr.
Introduces students to the profession of Social Work. Provides an overview of social work by familiarizing the students with a generalist perspective and includes issues such as diversity, populations at risk, and the values and ethics of the profession. Examines the history of the profession, social welfare policies, economic justice, and human behavior theories that are related to social work practice.

SWK 3300 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT 3 cr.
Focuses on the reciprocal relationships between human behavior and social environments. Includes empirically based theories and knowledge that focus on the interactions between and among individuals, groups, societies, and economic systems. Includes theories and knowledge of biological, sociological, cultural, psychological, and spiritual development across the life span; the range of social systems in which people live (individual, family, group, organizational, and community); and the ways social systems promote or deter people in maintaining or achieving health and well-being.

SWK 3308 EVALUATION RESEARCH 3 cr.
Provides an understanding of a scientific, analytic, and ethical approach to building knowledge for social work practice through qualitative and quantitative research content. Prepares students to develop, use, and effectively communicate empirically based knowledge and critical thinking skills, including evidence-based interventions.

SWK 3315 (HST 3315) EVOLUTION OF SOCIAL WELFARE IN AMERICA 3 cr.
Analyzes the history and evolution of social welfare services, the history of social work and major policies that form the foundation of social welfare. Includes the impact of social welfare on populations at risk and examines factors that contribute to and constitute being at risk. Provides knowledge of distributive justice, human and civil rights, and the global interconnections of oppression.

SWK 3320 GERONTOLOGY 3 cr.
Provides students from a variety of careers (such as social work and psychology) with an introduction to gerontology. Emphasizes a person-in-environment perspective to interacting with older persons and includes a practice-based component. Provides an opportunity for students to practice interaction skills with older persons. Offers current implications of aging in our complex, and increasingly older, modern society.
Prerequisite: SOC 1101

SWK 3321 CHILD WELFARE 3 cr.
Introduces students to the field of child welfare in social work. Students will explore issues affecting the lives of children in the United States and current services developed to meet children's needs. The course is taught from a systems, strengths-based perspective.

SWK 3330 SOCIAL POLICY 3 cr.
Provides knowledge and skills to understand major social policies that form the current structure of social welfare services and the role of policy in service delivery, social work practice and attainment of individual and social well-being. Analyzes and researches organizational, local, state, national, and international issues in social welfare policy and social service delivery. Prepares students to influence, formulate and advocate for policy, consistent with social work values, as a means of alleviating poverty, oppression and other forms of social and economic injustice.

SWK 3350 SOCIAL WORK PRACTICE WITH SMALL GROUPS 3 cr.
Focuses on ethical practice content that encompasses values, knowledge, and skills to work with GROUPS, including engaging clients in an appropriate working relationship; identifying needs, resources, and assets; collecting and assessing information; evaluating program outcomes and practice effectiveness; and planning for service delivery. Includes content on identifying, analyzing, and implementing empirically based interventions designed to achieve client goals, through the use of communication skills, supervision, and consultation. Emphasizes strengths, capacities, and resources of client systems, especially those populations at risk, in relation to their broader environments. Promotes strategies for effective practice with persons from diverse backgrounds and considers technological advances. Prerequisite: Social work candidacy.

SWK 3351 SOCIAL WORK PRACTICE WITH COMMUNITIES AND ORGANIZATIONS 3 cr.
Focuses on ethical practice content that encompasses values, knowledge, and skills to work with COMMUNITIES AND ORGANIZATIONS, including engaging clients in an appropriate working relationship; identifying needs, resources, and assets; collecting and assessing information; evaluating program outcomes and practice effectiveness; and planning for service delivery. Includes content on identifying, analyzing, and implementing empirically based interventions designed to achieve client goals, through the use of communication skills, supervision, and consultation. Emphasizes strengths, capacities, and resources of client systems, especially those populations at risk, in relation to their broader environments. Promotes strategies for effective practice with persons from diverse backgrounds and considers technological advances. Prerequisite: Social work candidacy.

SWK 3352 SOCIAL WORK PRACTICE WITH FAMILIES 3 cr.
Focuses on ethical practice content that encompasses values, knowledge, and skills to work with FAMILIES, including engaging clients in an appropriate working relationship; identifying needs, resources, and assets; collecting and assessing information; evaluating program outcomes and practice effectiveness; and planning for service delivery. Includes content on identifying, analyzing, and implementing empirically based interventions designed to achieve client goals, through the use of communication skills, supervision, and consultation. Emphasizes strengths, capacities, and resources of client systems, especially those populations at risk, in relation to their broader environments. Promotes strategies for effective practice with persons from diverse backgrounds and considers technological advances. Prerequisite: Social work candidacy.

SWK 3353 SOCIAL WORK PRACTICE WITH INDIVIDUALS 3 cr.
Focuses on ethical practice content that encompasses values, knowledge, and skills to work with INDIVIDUALS, including engaging clients in an appropriate working relationship; identifying needs, resources, and assets; collecting and assessing information; evaluating program outcomes and practice effectiveness; and planning for service delivery. Includes content on identifying, analyzing, and implementing empirically based interventions designed to achieve client goals, through the use of communication skills, supervision, and consultation. Emphasizes strengths, capacities, and resources of client systems, especially those populations at risk, in relation to their broader environments. Promotes strategies for effective practice with persons from diverse backgrounds and considers technological advances. Prerequisite: Social work candidacy.

SWK 4452 FIELD EDUCATION 12 cr.
Provides a 500 hour supervised field placement in an agency setting. Field Education reinforces students' identification with the purposes, values, and ethics of the profession, fosters the integration of empirical and practice-based knowledge, and promotes the development of professional competence for generalist social work practice. Prerequisites: Completion of all SWK major required courses with the exception of SWK 4453, and the acceptance of the Field Education Application by the Faculty Evaluation Committee. Co-requisite: SWK 4453.

SWK 4453 FIELD SEMINAR 3 cr.
Taken concurrently with SWK 4452, this seminar integrates the field experience with the knowledge, values, ethics, and skills of the social work profession for competent generalist practice. Prepares students for active participation in the process of supervision and addresses issues of diversity, populations at risk, and social and economic justice. Co-requisite: SWK 4452.

SWK 4454 EMPLOYMENT COUNSELING 3 cr.
Introduction to the field of employment services. Examines techniques involved in assessing individual skills and job requirements, as well as, sources of manpower information and forecasting. Covers theories of job selection and career development. Attention is given to the special problems of individuals undergoing retraining or rehabilitation, physically handicapped, and those having limited skills potential.

SWK 4457 INTERNATIONAL SOCIAL WORK 3 cr.
Provides an international perspective for examining the values, concepts, and practices of the social work profession. Introduces knowledge of the cultural, social, economic, and political forces that constitute international communities out of which social problems emerge and from which must be drawn resources for providing social services and solving problems.

SWK 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

THEATER

THT 2110 INTRODUCTION TO THEATER 3 cr.
Survey of drama and the art and craft of the theater. Content doesn't necessarily include practice in applied theater.

THT 2210 STAGECRAFT 3 cr.
Examines principles, procedures, and techniques of theatrical production including: background organization and planning, construction, painting, rigging, and operation of scenic elements, and the use and operation of lighting equipment. The laboratories are connected with the department's productions.

THT 2212 FUNDAMENTALS OF ACTING I 3 cr.
Introduces basic techniques and methods of acting. Designed for the beginning actor. No previous acting experience is necessary.

THT 2213 FUNDAMENTALS OF ACTING II 3 cr.
Continuation of 2212. Emphasis is on scene study, rehearsal, and performance techniques. Prerequisite: THT 2212 and permission of instructor.

THT 2214 MAKE-UP 3 cr.
Designed to familiarize the student with the basic principles and technique of stage make-up, the various types of make-up and how to apply it in order to enhance a dramatic characterization.

THT 3300 ADVANCED ACTING I 3 cr.
Advanced course in the methods and presentations of acting styles, from the ancient Greeks to Shakespeare. Particular emphasis will be placed on performance. Prerequisite: THT 2212 and 2213.

THT 3301 ADVANCED ACTING II 3 cr.
Continuation of 3300. Covers Restoration to the Modern Theater.

THT 3305 THEATER HISTORY I 3 cr.
The development of the theater from its primitive origins to the Renaissance. Western and Non-Western forms will be examined

THT 3306 THEATER HISTORY II 3 cr.
The development of the theater from the Renaissance to the present. Western and Non-western forms will be examined.

THT 3310 FUNDAMENTALS OF DIRECTING 3 cr.
Basic principles and procedures of directing a play. Includes directing or workshop scenes and a one-act play presented to a public audience. Prerequisite: THT 2210, 2212, 3305, 3306, and permission of instructor.

THT 3312 STAGE LIGHTING 3 cr.
The history and basic techniques of lighting for the stage. Lighting designs and control are stressed. Includes participation in lighting major productions. Prerequisite: THT 2210.

THT 3313 SCENE DESIGN 3 cr.
Study and practice in the principles and techniques of scenic design in the modern theater. Emphasis is on knowledge and sense of the theater and the relationship of the contribution of the scenic designer with those of the actor, director, and playwright. Prerequisite: THT 2210, 3317 or permission of instructor.

THT 3314 PLAY PRODUCTION PRACTICES 3 cr.
Concentrates on the various aspects of theater production from script to performance. An intensive experience in theatrical production for public performance. Synthesis of acting, design, technical and managerial elements in total production with emphasis on "hands-on" experience.

THT 3315 SCENE PAINTING ADVANCED STAGECRAFT 3 cr.
Training in the techniques and practices of contemporary scenic arts. Laboratory time will allow the student to demonstrate a proficiency of the techniques studied.

THT 3316 THEATER AND STAGE MANAGEMENT 3 cr.
Fundamental aspects of management designed for the serious student of theater. Provides concentrated experiences in major college productions as well as responsibilities in box-office and publicity.

THT 3317 DRAFTING AND SCENIC RENDERING 3 cr.
A study of techniques and conventions of drafting and full color rendering for the theater technician-designer. Prerequisite: THT 2210.

THT 3318 ADVANCED LIGHTING 3 cr.
Investigation into contemporary practices, equipment, and procedures for lighting all types of theatrical and entertainment events. Includes projects in the field. Prerequisite: THT 3312.

THT 4410 (COM) INTERNSHIP 6 cr.
Supervised and evaluated participation in varied settings provides practical application of theoretical principles. May be taken from 6 through 15 credits.

THT 4417 PLAY STRUCTURE AND ANALYSIS 3 cr.
Analysis of selected plays and their significance in the development of the dramatic form, including the study of the social and cultural conditions in which the playwright lived and worked.

THT 4418 PLAY WRITING 3 cr.
Studies the principles and theories of dramatic structure. Practice in writing for the stage. Prerequisite: THT 3305, 3306, 3310, 4417, and/or consent of instructor.

THT 4450 (COM) SPECIAL PROJECTS 1 - 3 cr.
A project initiated by the student to increase his/her knowledge in an advanced area not offered as a regular class. Intensive study of a subject area under the guidance of a faculty member who has special expertise in that subject. Prerequisite: Permission of instructor. May be taken for 1 - 3 credits not to exceed 9 credits.

THT 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1 - 3 credits at one time.

TRAVEL AND TOURISM

TRT 1102 INTRODUCTION TO TRAVEL-TOURISM 3 cr.
Surveys the broad nature of travel-tourism with an emphasis on the interrelationships between traveler need, desire, and travel fulfillment.

TRT 2201 COMPUTERIZED RESERVATIONS, TICKETING, TRAVEL AGENCY OPERATIONS 3 cr.
Acquaints student with computerized airline reservations and ticketing procedures including domestic and international route structures, fare rules and construction, industry airline reference materials, and operations of airline computerized reservation systems. The student will also study the travel agency: its personnel, operations, and management.

TRT 3300 THE TRAVEL CONSUMER 3 cr.
Provides students with a comprehensive understanding of the traveler-tourist characteristics, psychographics, and the external influences that impact on potential markets for travel-tourism products.

TRT 3312 INTERNATIONAL TOURISM 3 cr.
Studies the international tourist and the ramifications of such tourism to both sending and host countries.

TRT 3321 WORLD-WIDE DESTINATIONS ATTRACTIONS 3 cr.
Acquaints the student with the world-wide travel destinations, attractions, and attractiveness. Study of the marketing and promotion of these destinations.

TRT 3322 TRAVEL-TOURISM SITE DEVELOPMENT 3 cr.
An analysis of natural/manmade tourism resources of value in travel tourism. The development of resources into viable facilities will be considered in the contexts of changing socioeconomic and political considerations.

TRT 3350 HOTEL AND RESORT MANAGEMENT AND OPERATIONS 3 cr.
Exploration of the history, extent and nature of the contemporary hotel and resort industry. Specialized topics such as hotel sales and marketing, planning and development, food and beverage, recreation programming, personnel and security will also be emphasized.

TRT 4410 (HEC 3310) TOPICAL SEMINAR IN TRAVEL-TOURISM 3 cr.
Seminar topics vary to offer exposure to the multifaceted nature of travel-tourism. Topics include: the travel agency, wholesale tour development, issues in contemporary travel and tourism, and hospitality.

TRT 4420 TRAVEL-TOURISM PROJECT SEMINAR 3 cr.
Provides an opportunity to perform individual research, problem solving, and decision making in practical situations related to travel-tourism.

TRT 4430 TOURISM SUPPLIERS AND WHOLESALERS 3 cr.
A comprehensive study of travel-tourism suppliers, especially accommodations, food services, and the ground operators followed by a study of the wholesale travel business including personal experience in package/tour development and marketing.

TRT 4450 TOURISM RESOURCES MANAGEMENT 3 cr.
Description, planning, maintenance and protection of natural resource based tourism attractions including the management of human impacts and use of such resources.

TRT 4460 PASSENGER TRANSPORT 3 cr.
An analysis of spatial principles and transport systems and networks; including factors of route location, theories of interaction, and the role of all forms of passenger transport in the travel-tourism economy.

TRT 4461 CRUISE PRODUCTS 3 cr.
Acquaints students with the complexity and diversity of the cruise products available in the marketplace including equipment, corporate products and marketing philosophy, destinations, and markets.

TRT 4480 CONTEMPORARY ISSUES TRAVEL TOURISM 3 cr.
Survey of contemporary issues that are faced by the travel and tourism industry. Students become familiar with the issues through intensive study of the popular and trade press.

TRT 4494 INTERNSHIP 1 - 15 cr.
Provides an opportunity to apply skills and knowledge of travel-tourism under the supervision of professionals. Two individually designed projects are required. May be taken from one through fifteen credits. Prerequisite: permission of instructor.

TRT 4497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

UNIVERSITY EXPERIENCE

UNV 1100 FIRST YEAR SEMINAR 1 cr.
This course introduces first year students to the University and encourages students to become engaged members of the University learning community. The course asks students to explore the context of the Mansfield University undergraduate experience through the perspectives of selected liberal arts disciplines and their own learning community participation. It also helps students explore the means by which they can succeed at the University and how to use the various support services of the University.

WOMEN'S STUDIES

***WS 1100 INTRODUCTION TO WOMEN'S STUDIES 3 cr.**
Cross-disciplinary and cross-cultural examination of the ways that language, images, and socialization have constructed women's roles. Examines contemporary women's issues (work and family, sexuality, violence against women), as well as the women's movement and the role of women artists. Emphasis is on students (both female and male) working to discover the impact of these roles and issues in their own lives as well as in the larger world.

WS 4410 SEMINAR IN WOMEN'S STUDIES 3 cr.
An in-depth examination of a topic in Women's Studies including women's contributions, knowledge, and perceptions taught from a cross-disciplinary, cross-cultural perspective in seminar style. This serves as the capstone course for the Women's Studies minor. May be taken for a total of nine credits. Prerequisite: WS 1100, two other Women's Studies courses, and junior standing or permission of instructor.

X-RAY TECHNOLOGY

XRT 1101 X-RAY TECHNOLOGY I 3 cr.
Introduction to the basic elements of radiologic technology. Students will discuss medicolegal issues, radiation protection, medical terminology, and introductory radiographic procedures. This course is recommended for anyone interested in both radiologic and general health care issues. Course enrollment is open to any university student. Radiology students will be given preference.

XRT 1102 X-RAY TECHNOLOGY II 3 cr.
Basic introduction to imaging equipment and concepts of patient care. Students will learn examination considerations for the extremities, spine, shoulder girdle, pelvic girdle, and bony thorax. Prerequisite: XRT 1101, BSC 1121.

XRT 1103 X-RAY TECHNOLOGY III 5 cr.
Acquaints the student with the methods of x-ray film processing and principles of radiation biology. Emphasis will be placed on examinations of the cranium. Radiographic consideration of examinations using contrast media and film evaluation will be discussed. Prerequisite: XRT 1102.

XRT 1104 X-RAY TECHNOLOGY IV 3 cr.
Studies the principles of radiographic exposure. Emphasis is placed on radiographic examinations of the urinary system and alimentary canal. Students will evaluate radiographic concepts. Prerequisite: XRT 1103.

XRT 1105 X-RAY TECHNOLOGY V 3 cr.
Examines the radiographic aspects of human disease and pathology. Provides the basic concepts and techniques of radiologic quality assurance and continues to evaluate radiographic images. Prerequisite: XRT 1104.

XRT 1106 X-RAY TECHNOLOGY VI 4 cr.
Reviews the knowledge and cognitive skills underlying the intelligent performance of the major tasks typically required of an entry-level radiographer. Students will learn the methodology of scientific technical reporting and evaluation. Prerequisite: XRT 1105.

XRT 2203 X-RAY PHYSICS 3 cr.
Provides background for the more technical aspect of radiological physics. Provides background for understanding the principles and practices of radiology, and an understanding of the electromagnetic spectrum. Prerequisite: PHY 1165.

XRT 3301 CLINICAL PRACTICUM I 2 cr.
Examines the proper use of modern diagnostic x-ray equipment. Provides a general orientation regarding hospital facilities and policies. Students will perform, while under the direct supervision of a registered radiographer, examinations presented in XRT 1102. Prerequisite: XRT 1101.

XRT 3302 CLINICAL PRACTICUM II 2 cr.
Students continue to practice the skills learned in XRT 3301, and expand their clinical education into newer areas. They will perform, while under the direct supervision of a registered radiographer, examinations presented in courses XRT 1102 and 1103. Patient contact and responsibilities will increase in this course. Prerequisite: XRT 1102 and 3301.

XRT 3303 CLINICAL PRACTICUM III 2 cr.
Provides more advanced examinations presented in XRT 1103 and 1104. Training in the modalities of Nuclear Medicine and Computerized Tomography will be provided with a two-week rotation through each area. Students will demonstrate traumatic examination skills in the Emergency Room X-Ray Department practicum. Prerequisite: XRT 1103 and 3302.

XRT 3304 CLINICAL PRACTICUM IV 3 cr.
Students continue to perform radiographic examinations in the general diagnostic clinical area along with rotations through cardiovascular imaging, MRI, Ultrasound, and Radiation Therapy. Assignments will be given involving the quality assurance testing of diagnostic x-ray equipment. Prerequisites: XRT 1104 and 3303.

XRT 3305 CLINICAL PRACTICUM V 2 cr.
Performance of radiographic examinations that are done by entry-level radiographers. Patient contact and responsibility will increase with examinations performed under indirect supervision. A clinical elective will be selected for further specialization in any area of radiology. Prerequisite: XRT 1105 and 3304.

IX. GOVERNING BOARD AND FACULTY

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Faculty

Achey, LesErik B. (1970). B.A., Lebanon Valley College, 1969; M.S., Drexel University, 1971; M.A., Regent University, 1997. Associate Professor, Library.

Ambrosio, Antonio (1988). B.S.,B.S.E., State University of Campinas, 1972; M.S., Ibid., 1975; Ph.D., University of Notre.Dame, 1982. Associate Professor, Chemistry and Physics.

Arango-Keeth, Fanny (2002). B.A., Universidad Ricardo Palma, Ph.D. Arizona State University. Assistant Professor, Languages and Literature.

Barton, Bruce (1993). B.S., Moorehead State University, 1980; M.A., University of Nebraska-Lincoln, 1982; Ph.D. University of Denver, 1989. Associate Professor, Languages and Literature.

Baylor-Ayewoh, Tondelaya K. (1978). B.A., West Virginia State College, 1974; M.A., Marshall University, 1975; Ph.D., Pennsylvania State University, 1988. Professor, Academic & Human Development.

Benjamin, Jane (1999). B.Ed. Taiwan Normal University, 1984; M.S. SUNY at Albany, 1985, 1986; Ph.D. University of North Carolina at Chapel Hill, 1990. Associate Professor, Education and Special Education.

Bernum, Belinda A. (2002). Central Michigan University, 1986; M.A., The Pennsylvania State University, 1991. Assistant Professor of Communication, Theatre and Art.

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Blanco, Flor (1988). B.A., City University of New York, 1972; M.A., Ibid., 1974; Ph.D., University of Connecticut, 1986. Associate Professor, Languages and Literature.

Borsheim, David J. (1973). B.A., College of St. Thomas, 1968; M.A., Ibid., 1970; M.M., University of Cincinnati-Conservatory of Music, 1973. Associate Professor, Music.

Boston, Nancy J. (1989). B.M., Lawrence University, 1973; M.M., Peabody Conservatory of Music, 1975; D.M.A., Ibid., 1984. Professor, Music.

Bosworth, Jeffrey A. (2003). B.A., St. Andrew's Presbyterian College, 1990; A.M., University of Illinois-Urbana, 1993; Ph.D., Ibid., 2000.

Brennan, Adam F. (1995). B.M.E., Western Illinois University, 1986; M.A.Composition, Western Illinois University, 1989; D.M.A., University of Oklahoma, 2000. Associate Professor, Music.

Brown, Stephen D. (1974). B.S.Ed., Eastern Illinois University, 1970; M.S.Ed., Ibid., 1972. Associate Professor, Psychology.

Brucklacher, Barry (1989). B.S.E., Mansfield State College, 1970; M.Ed., Ibid., 1981; Ph.D. Pennsylvania State University, 1992. Professor, Education and Special Education.

Burns, Celeste T. (1975). B.S.Ed., Edinboro State College, 1971; M.Ed., Ibid., 1973; D.Ed., Pennsylvania State University, 1989. Professor, Education and Special Education.

Carico, Kathleen M. (2003). B.S.Ed., Tennessee Temple University, 1979; M.Ed., Virginia Polytechnic Institute and State University, 1988; Ph.D., Ibid., 1994. Assistant Professor, Education and Special Education.

Carpenter, Bruce E. (1987). B.S., Lycoming College, 1974; M.A., University of Connecticut, 1975; Ph.D., University of Connecticut, 1990. Professor, Business and Economics.

Carrish-Bulkley, Sharon A. (1993). B.S., Bowling Green State University, 1971; M.A., Framingham State College, 1984; M.A., Bridgewater State College, 1988; Ph.D., Boston College, 1992. Associate Professor, Communications, Theatre and Art.

Carson, Gregory (2002). B.A., LaSalle University, 1992; Ph.D., University of Nebraska-Lincoln, 1997. Assistant Professor, Chemistry and Physics.

Chabala, William (1976). B.S., Kutztown State College, 1971; M.Ed., Ibid., 1976. Associate Professor, Academic & Human Development.

Chester, Michael J. (1993). B.S., University of Delaware, 1985; Ph.D., University of Pennsylvania, 1991. Associate Professor, Chemistry and Physics.

Chua, Frank M. (1999). B.A., Slippery Rock University, 1991; M.A., Southern Illinois University, 1993; Ph.D., Penn State University, 1999. Assistant Professor, History and Political Science.

Cleland, Craig J. (1981). B.S., Millersville State College, 1975; M.Ed., Shippensburg State College, 1978; Ph.D., University of Maryland, 1980. Professor, Education and Special Education.

Clifford, Leslie D. (2002). B.S., Brigham Young University, 1993; M.S. Ibid., 1995, Ph.D. Wake Forest University, 2001. Assistant Professor, Biology.

Craig, Francis (1998). B.A., University of Richmond, 1989; M.A., Loyola-Maryland, 1994; Ph.D. University of Tennessee, 1998. Associate Professor, Psychology.

Crowder, Douglas (1998). B.M., Westminster Choir College, 1980; M.C.M., School of Church Music of the Southern Baptist Theological Seminary, 1982; D.M.A., Peabody Institute of John Hopkins University, 1992. Associate Professor, Music.

Crum, Michael (1984). B.S., Southeast Missouri State University, 1976; M.F.A., University of Southern Mississippi, 1984. Assistant Professor, Communication Theatre and Art.

D'Ortona, Catherine M. (1994). B.S., Loyola College, 1989; M.A., University of Virginia, 1992; Ph.D., Ibid., 1994. Associate Professor, Mathematics and Computer Information Science.

Dale, Richard (2002). B.S., Lock Haven University, 1977; M.Ed., Mansfield University 1985; Ph.D., Pennsylvania State University, 1999; Assistant Professor, Education and Special Education.

Darby, David J. (1972). B.S., Mansfield State College, 1965; M.S., Pennsylvania State University, 1970; Ph.D., Ibid., 1973, Associate Professor, Geography and Geology.

Davis, Scott A. (1988). B.S., Eastern College, 1977; Ph.D., University of Virginia, 1982. Professor, Chemistry and Physics.

Dettwiler, Peggy D. (1990). B.S., University of Wisconsin-Platteville, 1970; B.M., University of Wisconsin-Madison, 1982; M.M., Ibid., 1980; M.M., University of Texas-San Antonio, 1985; D.M.A., Eastman School of Music, 1991. Professor, Music.

Dietz, Donna (2003). B.S., Atlantic Union College, 1993; M.S. University of Massachusetts Lowell, 1995; Ph.D., Rensselaer Polytechnic Institute 2002; Assistant Professor, Mathematics and Computer Information Science.

Dodson, Russell L. (1982). B.S.E., Wayne State University, 1972; M.S., Michigan State University, 1974; Ph.D., Ibid, 1985. Professor, Geography and Geology.

Doerksen, Teri Ann (2000). B.A. Willamette University, 1989; M.A., University of Colorado at Boulder, 1991; Ph.D., University of Pittsburgh, 1997. Associate Professor, Languages and Literature.

Dorwart, Doris (2001). B.S. Temple University, 1972; M.S., Temple University, 1974; Ed.D., Temple University, 1981; Assistant Professor, Library-Information Services.

Dugan, Mary Jane (1985). B.S., University of Utah, 1975; M.P.A., University of Texas-Austin, 1980; Associate Professor, Business and Economics.

Eidenier, Elizabeth (1978). B.M., Florida State University, 1971; M.M., Florida State University, 1974. Assistant Professor, Music.

Elsasser, Thomas (1982). B.A., Norwich University, 1969; M.A., Fairleigh Dickinson University, 1978. Assistant Professor, Academic & Human Development.

Evans, Wayne (1981). B.S., Lock Haven State College, 1977; M.Ed., Pennsylvania State University, 1980. Associate Professor, Robert Packer Department of Health Sciences and Physical Activities.

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Flesch, David C. (1977). B.S., University of Wisconsin-Platteville, 1967; Ph.D., Iowa State University, 1977. Professor, Biology.

Floyd, Jannis (1994). B.A., Wake Forest University, 1975; M.Ed., East Carolina University, 1979; M.A., Appalachian State University, 1983; Ed.S., Virginia Polytechnic and State University, 1992; Ed.D., Ibid., 1995. Associate Professor, Education and Special Education.

Fuller, Janet A. (1980). B.S., Mansfield State College, 1973; M.Ed., Ibid., 1976; Ed.D., Pennsylvania State University, 1989. Associate Professor, Education and Special Education.

Gaballa, Mahmoud A. (1991). B.A., M.A., Alexandria University, 1970; M.B.A., Tarleton State University, 1980; M.P.A., New York University, 1984; Ph.D., Ibid., 1990. Associate Professor, Business and Economics.

Galloway, H. Michael (1980). B.M.E., Baldwin-Wallace College, 1966; M.M., New England Conservatory, 1968; D.M.A., Hartt College, 1986. Professor, Music.

Ganong, Barry R. (1992). B.S., Oral Roberts University, 1977; Ph.D., University of Wisconsin-Madison, 1982. Associate Professor, Chemistry and Physics.

Garrett, Michele P. (1993). B.A., Lebanon Valley College, 1981; M.S.N., Villanova College, 1989. D.N.Sc., Widener University, 1998. Associate Professor, Robert Packer Department of Health Sciences and Physical Activities.

Garrison, Frances S. (1985). B.S., James Madison University, 1982; M.L.S., George Peabody College for Teachers of Vanderbilt University, 1985; M.S.Ed., Elmira College, 1990. Associate Professor, Library.

Gaskievicz, Andrew (1999). B.A., Western Washington University, 1988; M.A., Ibid., 1990; Ph.D., SUNY-Stony Brook, 1999. Assistant Professor, History and Political Science.

Ghods, Abe (1983). B.S., Youngstown State University, 1976; M.B.A., Ibid, 1978. Associate Professor, Business & Economics.

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King, Joseph T. (1989). B.S., University of Buffalo, 1969; M.D., Ibid., 1973; Cleveland Clinic, Pathology Residency, 1977. Medical Advisor, Medical Technology Program.

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Krantz, Clarence L. (1976). B.S.E.E., Bucknell University, 1967; M.E.E., Cornell University, 1968. Associate Professor, Mathematics and Computer Information Science.

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McEuen, Stephen P. (1977). B.M., Northeast Missouri State University, 1974; B.M.E., Ibid., 1974; M.M., The Julliard School, 1976. Assistant Professor, Music.

McEvoy, Adrianne (2003). B.A., State University of New York at Buffalo 1993; M.A. Ibid, 1999; Ph.D., Ibid. 2002; Philosophy.

McEwan, Mary (1993). B.S., Elmira College, 1989; M.S., SUNY-Binghamton, 1991; M.S.Ed., Elmira College, 2000. Assistant Professor, Robert Packer Department of Health Sciences and Physical Activities.

McGuire, Jane (1994). B.S., Boston University, 1956; M.S., SUNY-Binghamton, 1983; Ph.D., Cornell University, 1993. Associate Professor, Robert Packer Department of Health Sciences and Physical Activities.

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*Note: Dr. James Y. Glimm was posthumously granted Emeritus Status on 3/22/01.

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